CONTENTS

List of Illustration	S	xiii
INTRODUCTION	That Was Then, This Is Now	1
CHAPTER 1	Does the Universe Move in Waves?	23
CHAPTER 2	Not All Financial Advisors Are Created Equal	43
CHAPTER 3	Access to Alternative Investments and	
	Competitive Advantages	51
CHAPTER 4	The Changing Financial Landscape	65
CHAPTER 5	I Hate To Say It, But I Told You So	79
CHAPTER 6	The "Smart Money" Is Global	93
CHAPTER 7	Hedge Funds: Evil or Angels in Disguise?	113
CHAPTER 8	The Fools' Gold or the Real Deal?	147
CHAPTER 9	Venture Capital	159
CHAPTER 10	Asset Allocation and Alternative Investments	201
CHAPTER 11	Modern Portfolio Allocation	223
CHAPTER 12	Devising Portfolios with Alternative	
	Investments (Active vs. Passive)	245
CHAPTER 13	The Asset Allocation Process and Sample	
	Portfolios	265
Notes		281
Index		307



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INTRODUCTION: THAT WAS THEN, THIS IS NOW

Alternative investments can be defined as any asset class or investment other than equities, bonds, or cash. Diversification can lead to alternative investments as obscure as coins, diamonds, comic books, rare earth, art, or even wine. One of my goals in writing my first book, Wave Theory for Alternative Investments: Riding the Wave with Hedge Funds, Commodities, and Venture Capital, was to help educate anyone interested in alternative investments, whether they are institutional investors, high net worth clients, wealth managers, financial advisors, financial planners, consultants, professors, trainees, or students. I would like investors to simply know more about the exciting world of alternative investments. Besides this professional or institutional audience, many others have expressed an avid interest in learning more about alternative investments. The world of financial products for alternative investments is rapidly expanding and the number of choices is substantial. In the past, the vast majority of research concerning investments has been focused primarily on equities and fixed income. However, times have changed and so has the investment process, which has evolved to include alternative investments. It is my firm belief that virtually any asset allocation model should include alternative investments. As authors Bodie, Kane, and Marcus explain in The Investment Process in Investments, "Investment assets can be categorized into broad asset classes, such as stocks, bonds, real estate, commodities, and so on." Understanding Alternative Investments covers how alternatives work and why it might be wise for an investor to consider adding them to their portfolio. Essentially, alternative investments can be utilized to build better investment portfolios with less risk and higher returns if done in a prudent fashion.

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2 UNDERSTANDING ALTERNATIVE INVESTMENTS

Institutional money, otherwise known as "smart money," as well as ultra high net worth individuals, have utilized alternative investments for years and invested even more in alternative investments after the Great Recession. The *Dow Jones Newswire* reports that "A McKinsey & Co. study from this year on the mainstreaming of alternative investments found that year-round assets in global alternatives reached a record \$6.5 trillion in 2011, growing at a five-year rate of more than seven times that of traditional asset classes. By 2015, retail alternatives are expected to account for one-quarter of retail revenues, according to McKinsey & Co."2 Institutions are currently adding more alternative investments than in the past. According to KPMG, "The majority of institutional investors intend to increase their allocations to alternative investments in the next 3 years."3 Institutional investors can drive the market. Billions of dollars are flowing into alternative investments. In 2012 the New Jersey Division of Investment, Trenton, committed up to \$1.745 billion to new and existing alternatives investments.4 Retail investors are adding alternative investments and mutual funds are creating vehicles for easier access. The rate at which investors are putting money into alternative mutual funds is making them mainstream. "According to data released by Cerulli Associates and Strategic Insight/SIMFUND, alternative mutual funds account for 2.8 percent of overall mutual fund assets today. But Cerulli projects they will account for 9.7 percent of all mutual fund assets in five years, and 15.8 percent of assets a decade from now." Poor returns with equities during the tech bubble and the Great Recession, as well as numerous complications with bonds, have created curiosity amongst investors regarding alternative investments.

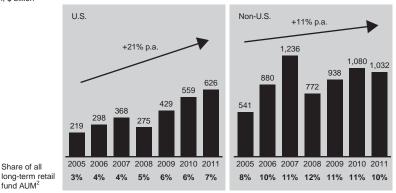
The market has grown and developed vehicles to enable many types of investors to further diversify. In 2012, the mutual fund behemoth Fidelity Investments offered investors access to hedge funds. "Fidelity Investments is offering retail clients access to hedge-fund firms through a mutual fund launched in partnership with Arden Asset Management." Private-equity firms also set up new vehicles. Blackstone Group LP and Carlyle launched their first mutual funds in 2013. On the one hand, it is good news that alternative investments can be accessed for far less money than in the past. On the other hand, it has created a new set of problems. Not all vehicles being introduced today for alternative investments are worthwhile. "The

Alternatives Are Experiencing Strong Growth in the Retail Market, Particularly in U.S. Mutual Funds

Retail alternative funds asset growth1 AUM. \$ billion

Share of all

fund AUM2



Alternatives includes absolute return, commodities, currency trading dedicated short bias, equity energy, leveraged strategies (both long and inverse), managed futures, market neutral, multi-strategy alternatives, natural resources, options arbitrage, precious metals, real estate and volatility strategies; excludes distressed debt.

Figure 0.1 The Growing Interest in Alternative Investment Mutual Funds.

Source: The Mainstreaming of Alternatives: The Next Wave of Growth in Asset Management, McKinsey & Company, June 2012.

vast majority of the other 254 hedged mutual funds in the US—which pursue market-neutral, long-short, managed-futures and multi-alternative strategies—have proven to be even more lackluster."7 Alternative investments continue to gain momentum with retail investors (Figure 0.1).

Risk has increased into areas that are both transparent and hidden. Hidden risk with alternative investments can be very troublesome, as seen by the real estate problems that caused the Great Recession. "In the years running up to the financial crisis, there was a much-discussed breakdown between what investors actually bought and what they understood they were buying... At its heart, the subprime debacle was a fundamental misunderstanding of real estate risk, and the perils of applying historical models (about potential default rates, for example) to the current environment. But it also represented a form of concentration risk, to the extent that so many investors relied on a handful of ratings agencies and their models."8 Many new financial products have shown up on the market since the Great Recession, claiming to be "alternatives" or "alternative investments." These so called alternative products are entering the market at a rapid rate and causing much confusion. I met with a well-known mutual fund

²Includes mutual funds, closed-end funds, ETFs and UCITs structures, and excludes limited partnerships and separately managed accounts

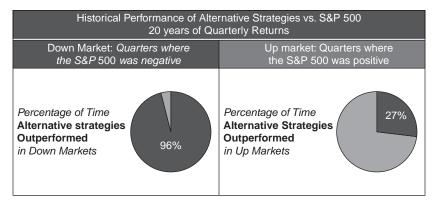
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4 UNDERSTANDING ALTERNATIVE INVESTMENTS

company that has historically specialized in fixed income and equities. The fund company (like many others) are now self-proclaimed experts with alternative investments. Essentially, all fund companies offer alternative mutual funds today. However, the majority of these fund companies are merely renaming or dressing up old funds to make them appear to be alternative investments. Another fund company even described one of their fixed income funds as a "hedge fund" because the mutual fund manager has the ability to short or sell bonds. Yet this is nothing new or earth-shattering.

Hedge funds and mutual funds are not the same. Just because a mutual fund can do something a hedge fund can do, does not necessarily mean it can suddenly transform into a hedge fund. Another mutual fund company that I know had a natural resources fund that morphed into a "commodities" fund. That is, representatives from the company are telling advisors or investors they are commodities experts. However, investing in a gold miner or exchange-traded fund (ETF) does not qualify them to be commodity experts. Essentially, mutual fund companies are new to the world of alternative investments. Investors should be careful about such products and perform proper due diligence. Historically, the biggest blowups often result from investors not asking enough intelligent questions. For example, many investors were duped by Bernie Madoff. They thought they were investing in a reputable hedge fund with good performance. Bernie Madoff deliberately made it awkward to ask detailed questions about his strategy and would make investors feel intimidated as though they were being disrespectful. Amaranth Advisors LLC was another blowup that could have been avoided by investors asking astute questions. Amaranth was an American hedge fund that collapsed in 2006 after losing billions in natural gas futures. The collapse was not about unpredictable market events but rather an oversight issue. Neither of these investments provided a clear or concise explanation as to what they were investing in and investors lost billions of dollars as a result. They were two of the worst investments anyone could ever make.

Investors should learn about how alternative investments function as well as all their hazards and whether or not it makes sense to add them to a diversified portfolio. Do they help or hinder the goals and objectives of an investment portfolio? Depending on the alternative investment, they can play a role in a prudent investor's portfolio because of their intrinsic



Source Zephyr StyleADVISOR (April 1, 1993-June 30, 2012). Alternative Strategies are represented by the Hedge Fund Research, Inc. (HFRI) Fund-of-Funds Composite, an equal-weighted index consisting of over 800 consultant hedge funds, including both domestic and offshore funds; U.S. Stocks are represented by the S&P 500, a market capitalization-weighted index of 500 widely held stocks often listed as proxy for the stock market. Past performance does not guarantee future results. Illustration does not reflect performance of Principal Fund and does not take into account cost associated with investment. The Principal Global Multi-Strategy Fund is new and therefore does not have investment performance. Index performance information reflects no deduction for fees, expensed, or taxes. Indices are managed and individuals cannot invest directly in an index. Asset allocation/diversification does not guarantee a profit or protect against a loss.

Figure 0.2 Historical Performance of Alternative Investments in Both Down and Up Markets.

Source: Dave Reichart, Senior Vice President, Principal Funds.

risk/reward characteristics. However, alternative investments are not a get-rich-quick or riskless investment. No investment is risk free. Investing in alternatives without clear and precise knowledge, just like the purchase of any other investment or product, seldom has beneficial results. Invariable the results are poor.

Wall Street typically offers guidance but created long-term skepticism among investors due to the subprime crisis and has since provided little solace. Over the past two decades, alternative investments have performed reasonably well in both down as well as up markets (Figure 0.2).

Understanding the magnitude of the problems and what led to them as well as the global domino effect that followed are crucial to seeing the role that alternative investments might play in a well-diversified portfolio. "The robustness check for the financial crisis reveals that the importance of alternative investments for risk diversification in defensive portfolios was underestimated. In spite of the financial crisis the results for alternative investments are even stronger." The world witnessed a rogue (sometimes referred to as freak) financial wave that helped form the Great Recession, not too different from a rogue wave at sea. "An unusually high single wave event observed offshore is commonly called a freak wave. This definition is somewhat obscure since neither the cause of the occurrence nor criteria to define freak waves have been clarified. Freak waves have

6 UNDERSTANDING ALTERNATIVE INVESTMENTS

been observed only rarely and these observations occurred under unexpected condition[s]: hence, only few measured data are available." It is also important to review this time period, otherwise known as the Great Recession, because it highlights risks found with alternative investments that can be either transparent or hidden.

The losses suffered by Wall Street were evidenced by the significant write-downs by banks and investment firms. They were heavily involved with subprime real estate. Years after, the Great Recession led to many financial institutions being downgraded, especially large banks in the United States: "S&P downgraded 15 big banks to reflect new rating methods the firm has been putting in place over the past year. The new guidelines sharpen the focus on how banks would hold up under market and economic stress, and on the likelihood of governments providing extraordinary support to troubled institutions."11 When purchasing alternative investments, the firm used to make the purchase was not so much a concern as it is today. Historically, it was unheard of for a firm to go bankrupt. However, Lehman Brothers sold alternative investments and went bankrupt, which caused numerous problems for those who bought them. Moreover, alternative investments can be illiquid or not easily moved from one firm to another. Once the firm shut its doors, the former Lehman employees that sold the alternative investments were all gone and investors had no one to turn to for information. Certain proprietary products were completely wiped out. In other words, the "seller" risk became an issue. New risks emerged that had never been seen before. The Great Recession showed Wall Street and investors unforeseen risk that no one had considered let alone incorporated in any risk model, whether they were an institution or a retail investor.

Risk used to be somewhat simple to comprehend. "Each investment—each stock, bond, or physical asset—is associated with two types of risk: diversifiable risk and nondiversifiable risk. The sum of these two components is the investment's total risk." But risk can change and new risk can emerge such as evidenced by the Great Recession. Throughout this book, transparent as well as hidden risks with alternative investments are covered. Figure 0.3 is a risk chart I devised to show both kinds of risk that one might consider along with other variables before acquiring an alternative investment.

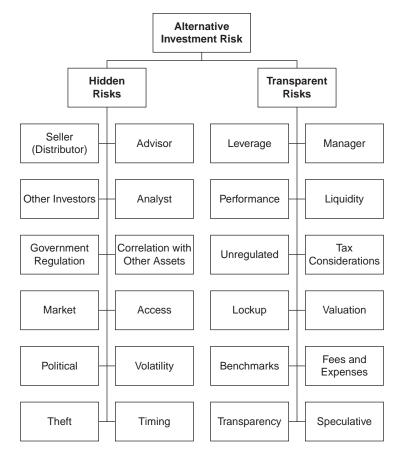


Figure 0.3 Transparent and Hidden Risks with Alternative Investments. Source: Author.

How did banks become a risk to investors interested in alternative investments? One way was through real estate. Real estate is an alternative investment. Real estate is both commercial and residential:

Real Estate for the vast majority of the public means a home or a condominium. And, that residential market is completely different, with a different set of dynamics, from the commercial market. The purchase of a home or condo is probably the last bastion of individual decision making, where the wrong decision has an immediate adverse impact on the purchaser. The commercial real estate market is no longer dominated by individual purchasers. Rather it

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8 UNDERSTANDING ALTERNATIVE INVESTMENTS

is dominated by REITs, institutional investors, investment bankers and pension funds. The individual investor participates indirectly as a shareholder, pensioner, or investor in a pool.¹³

Like other alternative investments, real estate moves in waves. That is, commercial real estate tends to be correlated with the business cycle. As an investment, real estate can be quite compelling and provide a steady income stream. There are a lot of ways to invest in real estate. One can buy real estate outright, such as a house or apartment building. Investors can lend money privately to those wanting to buy houses. Real estate investment trusts (REITs) can be private or publicly traded. Yet real estate is not without risk. Wall Street took a segment of the real estate market and created a security that ultimately led to the Great Recession. The riskiest part of real estate, subprime real estate, involves loans being made to borrowers with bad credit ratings.

In *Wave Theory for Alternative Investments*, three primary alternative investments were covered—hedge funds, commodities, and venture capital. These are just a few of the many types of alternative investments. However, there are many other alternative investments such as real estate, managed futures, and LBO funds (private equity). Alternative investments, just like any other security, can be found to move in waves that I call "Wave Theory."

Wave Theory is simply the belief that all securities move in waves (patterns, cycles, or trends). History sometimes repeats itself, but with alternatives an investor can typically see similar waves repeating themselves. Equities move in waves. Fixed income moves in waves. Cash moves in waves. There is now enough data to support the notion that alternatives move in waves.¹⁴

Many years ago, I devised the hypothesis that alternative investments move in waves. Waves never stop as we know. "The seas off the eastern and western coasts of Australia provide constant waves, rolling in as they do from half way across the world, in the Pacific Ocean on Australia's western coast, and really as far in the Indian Ocean that washes Western Australia's shores. A storm almost anywhere across two thirds of the world builds waves that

eventually crash onto Australia's two main coastlines."15 However, there was no reliable data that I could utilize to test this hypothesis so I had to collect it myself. Over the years, I gathered large amounts of data to prove my theory. I examined many alternative investments and found that they move in waves. For example, there are LBO waves. "The leveraged buyout (LBO) wave of the 1980s was an important phenomenon well studied by academics and practitioners. The recession of the early 1990s, however, brought most of that activity to an end, as many deals from later in that period defaulted. Nearly 15 years later, however, the pace of LBO activity reached new record levels, renewing questions about whether and how these deals create value."16

While data with alternative investments can sometimes be conflicting, LBO funds have been shown to outperform the S&P 500. Robert Harris of the University of Virginia's Darden School, Tim Jenkinson of Oxford University's Saïd Business School, and Steven Kaplan of the University of Chicago's Booth School of Business examined private-equity performance and found that it is "very likely" that private equity outperforms the S&P 500.17 Similarly, Dr. Rüdiger Stucke, a research fellow in Finance and Economics at the Saïd Business School and the Oxford-Man Institute of Quantitative Finance, University of Oxford, states, "In particular, the claim that private equity has not outperformed public equity is unlikely to hold with true numbers."18 LBOs are part of the alternative investments area known as private equity. Private equity also moves in waves. As David T. Robinson and Berk A. Sensoy explain in an abstract "Cyclicality, Performance Measurement, and Cash Flow Liquidity in Private Equity," "Public and private equity waves move together."19 Another area that I researched was real estate. Like private equity, real estate moves in waves. "Real estate is not a highly liquid asset and the key to successful investing is one of timing...One thing is certain; whatever has happened in the past will be repeated in the future, although probably in a different form."20 Figure 0.4 is a chart of real estate equity assets showing the market recovering and forming a new wave for real estate despite the fact that the Great Recession was caused by the real estate market collapse.

Real estate has moved in waves for centuries and there have been many housing booms long forgotten. "A truly healthy housing market boom

Growth of real estate equity

U.S. institutional, tax-exempt assets managed internally, in billions, as of Dec. 31. Includes timber.

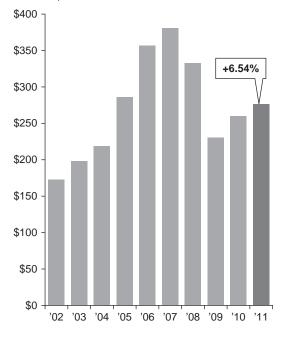


Figure 0.4 Real Estate Waves.

Source: "Graphic: Growth of real estate equity assets," Pensions and Investments, http://www.pionline.com, May 28, 2012.

occurred between 1940 and 1960. Supported by Fannie Mae as a quiet, behind-the-scenes government corporation, the home ownership rate grew from 40 percent to 60 percent. The company provided liquidity for FHA mortgages and for U.S. Veterans Affairs' zero-down payment mortgages for returning World War II soldiers, which helped fuel the growth of the American middle class." A plethora of information was put together in *Wave Theory for Alternative Investments*, in order to show waves that each alternative investment (hedge funds, commodities, and venture capital) exhibits over time. Real estate, which caused the Great Recession, is recovering. "Sales of previously owned homes were stronger than expected in October 2012, putting them on track to hit their highest annual level since 2007."22 The residential real estate market is showing signs of recovery. (Figure 0.5).

New constructions is a way to gauge the real estate market. ETFs such as the Dow Jones U.S. Home Construction ETF are now available. "Over the past 20 years, home-related stocks have roughly tracked new construction,

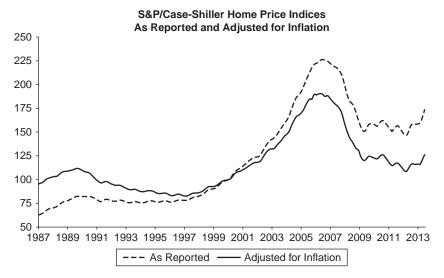


Figure 0.5 United States Residential Real Estate Recovering and Forming a New Wave. Source: Rent vs. buy and inflation adjustments - S&P Dow Jones Indices - housing views.

itself perhaps the best indicator of the housing market's health. Plus, growth over a cycle can justify the high price/earnings ratios that housing stocks might have initially; future earnings and price appreciation can make those formerly costly-looking stocks seem cheap in hindsight."23 The lumber industry, home-improvement stores, and homebuilders were some of the best performing industries in 2012.

Reminiscent of ocean waves, securities move in waves. Equities, for instance, move in waves. "Bull and bear markets are a common way of describing cycles in equity prices."24 Patterns, trends, and cycles can be seen over time, again and again with alternative investments. Behavioral finance helps explain this phenomenon. "The forecasted change in price level is higher following a series of previous price increases than following price decreases, suggesting that investors indeed chase trends once they think they see them."25 Fixed income moves in waves, as evidenced by the European debt crisis where there was a wave of selling. Many have accepted the fact that alternative investments move in waves and presently more research is being done. Waves exist and they exist with alternative investments.

Prudent investors can use this knowledge regarding Wave Theory to possibly help them make intelligent investment decisions as well as to build better portfolios. "Several recent studies have attributed this forecast ability to what has come to be known as the 'stock market

12 UNDERSTANDING ALTERNATIVE INVESTMENTS

overreaction' hypothesis, the notion that investors are subject to waves of optimism and pessimism and therefore create a kind of momentum which causes prices to temporarily swing away from their fundamental values."26 Successfully investing money for institutions and high net worth individuals for more than two decades, I found this information to be quite useful. Based on the trends, patterns, or cycles that one observes, alternative investments can be used to further diversify a portfolio. Waves with different asset classes can also be found at the web site, http://www. InvestingWave.com. For instance, managed futures might be used to take advantage of these trends. "An initial under-reaction to a shift in fundamental value can potentially allow a managed futures strategy to invest before the information is fully reflected in prices. The trend then over extends due to herding effects."27 "Managed Futures" refers to the Barclays CTA Index, an index that seeks to replicate the overall composition of the managed futures industry. Managed futures did well starting in 1990 when the equity market was bad, as well as in 2000, 2001, 2002, and 2008 (Figure 0.6).

A number of savvy investment pros have seen the value of investing when times are bad. "The secret is having the capital and courage when things look pretty gloomy to say, 'This will work,'" says George Siguler, whose New York-based Siguler Guff & Co. manages about \$10 billion in private equity and distressed debt, including investments in Oaktree.²⁸ Many of these successful pros are experts in alternative investments. Carlyle Group frequently enters new areas before others, such as raising a sub-Saharan Africa private-equity fund, giving the firm a first-mover advantage. The largest hedge fund in the world, Bridgewater Associates, follows a strategy somewhat similar in nature to Wave Theory. The founder of Bridgewater Associates is Ray Dalio. Dalio, 62, built Bridgewater into the world's largest macro hedge-fund firm, with \$110 billion in total assets, by tacking against consensus. He's created a distinct workplace culture and a researchdriven investing process that spreads risk across scores of markets. "Making money is a zero-sum game, so to be successful you have to be willing to stand apart from the crowd," Dalio says, "And you have to be right."29 These investments pros know when to buy or sell, unlike the typical investor that sells precisely at the wrong time (the bottom of the market) and buys at the wrong time (at the top).

Comparative Performance of Asset Classes Ranked by Annual Return (January 1990–June 2013)

2013	500 13.8%	NASDAQ 12.7%	World 8.8%	Real Estate 5.4%	Hedge Funds 3.6%	Managed Futures 0.5%	T-Bills 0.0%	Global Bonds -5.7%	utures		
2012	Real Estate 20.2%	World World 16,5%	500 16.0%	NASDAQ 15,9%	Hedge Funds 6.4%	Global Bornds 1.7%	7-Bills 0.1%	Managed Futures -1.8%	Managed Futures	6.7%	1.00
2011	Real Estate 7.3%	Global Bonds 6.4%	S&P 500 2.1%	T-Bills 0.1%	NASDAQ -1.8%	Managed Futures -4.3%	Hedge Funds -5,3%	World -5,0%	W		
2010	Real Estate 27.6%	NASDAQ 16.9%	58P 500 15.1%	MSCI World 12.3%	Hedge Funds 10.3%	Managed Futures 6.4%	Global Bonds 5,2%	7-Bills 0.1%	Hedge Funds	10.9%	(0.01)
2009	NASDAQ 43.9%	MSCI World 30.8%	Real Estate 27.4%	\$8P 500 26.5%	Hedge Funds 20.0%	Global Bonds 2.6%	T-Bills 0.2%	Managed Futures -4.8%	Hedg	10	0
2008	Managed Futures 13.5%	Global Bonds 10.9%	T-Bills 1.3%	Hedge Funds -19.0%	\$2.0 500 37.0%	Real Estate -37.3%	World World 40.3%	NASDAQ -40.5%	e e		
2007	Global Bonds 11.0%	Hedge Funds 10.0%	NASDAQ 9.8%	World 9.6%	Managed Futures 7.5%	S&P 500 5,5%	T-Bills 4.5%	Real Estate -17.8%	Real Estate	10.3%	(0.05)
2008	Real Estate 34.4%	MSCI World 20.7%	\$8.P 500 15.8%	Hedge Funds 12.9%	NASDAQ 9,5%	Global Bonds 6.1%	Managed Fotures 6.0%	7-Bills 5.0%	-		
2005	World 10.0%	Hedge Funds 9.3%	Real Estate 8.3%	500 500 4.9%	T-Bills 3,3%	Managed Futures 2.4%	NASDAQ 1.4%	Global Bonds -6.9%	T-Bills	3.2%	80.0
2004	Real Estate 30.4%	World 15.2%	58P 500 10.9%	Global Bonds 10.4%	Hedge Funds 9.0%	NASDAQ 8.8%	T-Bills 1.4%	Managed Futures 0.9%	1.8	8	0
2003	NASDAQ 50.0%	Real Estato 38,5%	MSCI World 33.8%	S&P 500 28.7%	Hedge Funds 19.5%	Managed Futures 15,5%	Global Bonds 14.9%	T-Bills 1.0%	sp		
2002	Global Bonds 19,5%	Managed Futures 13.7%	Real Estate 5.2%	1-69% 1.6%	Hedge Funds -1.5%	MSCI World -19.5%	500 522.1%	NASDAQ 31.5%	Global Bonds	6.5%	0.29
2001	Real Estate 15,5%	Hedge Funds 4.6%	Managed Futures 3.8%	1-Bills 3,3%	Global Bonds -1.0%	500 500 -11.9%	MSCI World -16 5%	NASDAQ -21.1%	5		
2000	Real Estate 25.9%	Managed Futures 6.6%	T-Bills 6.0%	Hedge Funds 5.0%	Global Bonds 1.6%	588 500 9.1%	MSGI World	NASDAQ 39.3%	World	%	(8)
1988	NASDAQ 85.6%	Hedge Funds 31.3%	World 25.3%	\$8.P 500 21.0%	T-Bills. 4.8%	Managed Futures 1.6%	Global Bonds 4.3%	Real Estate -6.5%	MSCI World	6.4%	(0.08)
1998	NASDAQ 39 6%	580 500 28.6%	MSG World 24.8%	Global Bonds 15.3%	Managed Futures 12.4%	T-Bills 4.9%	Hedge Funds 2.6%	Real Estate 18.8%			
1987	5&P 500 33.4%	NASDAQ 21.6%	Real Estato 18.9%	Hedge Funds 16.8%	MSCI World 16.2%	Managed Futures 12,0%	T-Bills 5.2%	Global Bonds 0.2%	NASDAQ	8.9%	(0.19)
1986	Real Estate 35.8%	586 500 23.0%	NASDAQ 22 7%	Hedge Funds 21.1%	MSCI World 14.0%	Managed Futures 12.8%	T-Bills 5.1%	Global Bonds 3,6%	-		
1995	NASDAQ 39.9%	S&P 500 37.6%	Hedge Funds 21.5%	MSCI World 21.3%	Global Bends 19.0%	Real Estate 18.3%	Managed Futures 14:0%	T-Balls 5.6%	900	%	5)
1994	MSCI World 5.6%	T-Bills 4.4%	Hedge Funds 4.1%	Global Bonds 2.3%	58.P 500 1.3%	Real Estate 0.8%	Managed Futures -0.2%	NASDAQ 3.2%	S&P 500	9.0%	(0.12)
1883	Hedge Funds 30.9%	MSCI World 23,1%	Real Estate 18 5%	NASDAQ 14.7%	Managed Futures 13.4%	Global Bonds 13,3%	500 10.1%	1-Bills 3.0%			turns
1992	Hedge Funds 21.2%	NASDAQ 15.5%	Real Estate 12.2%	58.P 500 7.6%	Global Bands 5.5%	T-Bills 3.4%	Managed Futures 2.5%	World 4.7%		al Return 2013	onthly Re
1881	NASDAQ 56.9%	Real Estate 35,7%	Hedge Funds 32.2%	500 500 30.5%	World 19.0%	Global Bonds 15,8%	Managed Futures 14.7%	T-Bills 4.6%		Compound Annual Return Jan 1990 - Jun 2013	Correlation of Monthly Returns to Managed Futures
1990	Managed Futures 15.3%	Global Bonds 12.0%	T-Bills 6.4%	Hedge Funds 5.8%	5&P 500 3.1%	MSCI World 16.5%	Real Estate 17.3%	NASDAQ -17.8%		Compo Jan 199	Correlato Mana

Figure 0.6 Managed Futures Performance Compared to Other Asset Classes.

Source: Millburn Ridgefield Corporation; S&P 500 Index; NASDAQ Composite Index; MSCI World Index; World Government Bond Index; 90-day U.S. Treasury Bills; FTSE NAREIT US Real Estate Index Series; HFRI Fund Weighted Composite Index; Managed Futures Index refers to the Barclay BTOP50 Index; Managed Futures Is a Managed Futures Index. Past Performance is not necessarily indicative of future performance. Unless noted otherwise, index returns do not reflect fees or transaction costs and reflect reinvestment of net divi-

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14 UNDERSTANDING ALTERNATIVE INVESTMENTS

Diversification with companies is not too dissimilar from an investor making investment decisions. After all, both would like to increase rates of return while ideally lowering risk to build a better, more solid investment portfolio. "In today's business world, institutional investors are looking to outperform the foreseeable long period of low returns of the public and fixed income security markets caused by the economic turmoil of the last few years. They are looking to invest in alternative vehicles such as venture capital and private equity firms that benefit from demonstrable competitive advantages in territories where they invest, which, in turn, provide real advantages to their portfolio companies vis-à-vis their competitors from around the globe."30 In other words, there appears to be many types of financial waves. Opportunities to invest exist in any environment but one needs to develop fundamental valuation principles, whether it is in a corporate setting or an individual building a sound investment portfolio. Finding intrinsic value is difficult with publicly traded securities but can be even more cumbersome with alternative investments. Alternative investments can be difficult to value since there might be no market for them nor a lot of information to make a rational decision. Liquidity is also not a benefit of most alternative investments.

Wall Street has been and still remains mainly devoted to stocks, bonds, and cash. For instance, many recommendations revolve around these three asset classes and in some cases do not mention or include real estate, private equity, managed futures, venture capital, commodities, or hedge funds as additional options. Bloomberg reporter Inyoung Hwang has made several tables for strategists recommending allocations for stocks, bonds, and cash.³⁰

The American Association of Individual Investors (AAII) presents three different asset allocation models for investors called AAII Asset Allocation Models, which do not include alternative investments. That is, the aggressive, moderate, and conservative models have no alternative investments (Table 0.1).

By focusing on just stocks and bonds without alternative investments, investors are not considering an important part of the overall picture, which might possibly increase returns while at the same time lower risk, provided careful selection and appropriate timing are used.

Table 0.1 AAII Asset Allocation Models

Aggressive	Moderate	Conservative
20% large-cap stocks	20% large-cap stocks	25% large-cap stocks
20% mid-cap stocks	20% mid-cap stocks	10% mid-cap stocks
20% small-cap stocks	10% small-cap stocks	10% small-cap stocks
20% international stocks	15% international stocks	5% international stocks
10% emerging markets stocks	5% emerging markets stocks	0% emerging markets stocks
10% intermediate bonds	30% intermediate bonds	40% intermediate bonds
0% short-term bonds	0% short-term bonds	10% short-term bonds

Source: "Suggested Allocation Breakdowns," The American Association of Individual Investors, www.aaii. com/asset-allocation, April 2, 2013.

Historically, asset allocation was considered the Holy Grail for investing by Wall Street. In the infamous study "In Determinants of Portfolio Performance," authors Brinson, Hood, and Beebower examined 91 large pension plans over 1974-1983 and expressed the view that asset allocation is far more important than security selection or market timing. They found that asset allocation is responsible for around 93.6 percent of the variation in total plan return. While this study might have had some validity almost four decades ago, times have changed, especially with alternative investments. In Trends in State Pension Asset Allocation and Performance for 2012, Cliffwater states: "In fact, over the last 10 years, just the opposite has transpired. We find that asset allocation explained a mere 8% of the variation among state fund returns while manager/fund selection accounted for 92% of the variation among state fund returns."32 Oddly, decades after this study, there are still investors who believe security selection and market timing do not play a significant role. An interesting but little-known fact is that Brinson, Hood, and Beebower did not incorporate alternative investments at the time partially since these investments were not nearly as developed as they are today. Brinson, Hood, and Beebower appeared to have been undecided as to how to incorporate alternative investments. Recognizing alternative investments was one thing, but including them in their study was another. Data was unavailable for them to use. Essentially, alternative investments were not well known back then as they are almost 40 years later.

Investing during the 1960s and 1970s was very different from today. The 1960s led investors to believe one should buy and hold but this did not

16 UNDERSTANDING ALTERNATIVE INVESTMENTS

last for long. Investors liked buying the 50 most popular stocks and then holding them for the long haul: "The Nifty Fifty were often called one-decision stocks: buy and never sell. Because their prospects were so bright, many analysts claimed that the only direction they could go was up." The stock market declined in 1973–1974 and these stocks plummeted. By 1976, they were considered undervalued.

Most of the 1990s revolved around large cap growth names that investors bought and held like Cisco or Microsoft. A decade later, the financial landscape has changed once again. That is, investors have found a buy and hold strategy to be a troublesome strategy and bad for a portfolio. "The buy-and-hold strategy finds a theoretical basis in the Efficient Market Hypothesis (EMH), according to which stock prices always include all available information and are priced correctly. As a result, short term stock price movements are completely random and it is not possible to predict them." While it is debatable whether or not the stock market is truly efficient or not, alternative investments are often private and not traded on an exchange, and it is difficult to obtain information about them.

Regarding when and how an investor deploys funds to buy or sell any security, timing is much more relevant today. Timing is not completely irrelevant and might not be summarily dismissed. Investors frequently have bad timing such as the tendency to sell winners too early or hold losing investments too long. "Prospect theory predicts a disposition to sell winners and ride losers when the proceeds realized are held, as opposed to being rolled over into another gamble." Buying and simply holding without considering the market can lead to large losses:

The main problem with the buy-and-hold strategy is the total lack of risk control that can result in huge losses. Market volatility is higher during drawdowns. Prices usually decrease quicker than they increase, and thus the absence of risk management techniques exposes a passive unmanaged portfolio, to large fluctuations that in a few days can completely wipe out positive returns that took years to achieve. A buy-and-hold strategy may be extremely risky in declining markets.³⁶

Looking at the market is a prudent decision. Are we in an uptrend or a downtrend? What is the condition of the market?

Even though alternative investments have been found and shown to be useful for asset allocation purposes, Wall Street has been too timid to stray from their traditional investments mainly around stocks, bonds, and cash. That is, current asset allocation models frequently fail to include alternative investments despite the known benefits and merits of adding them to a portfolio. Countless investment professionals and many big banks to this day brandish pie charts showing asset allocation to be the biggest determinant for how returns are generated. Selecting which security to buy is important, as evidenced with the U.S. State Pension System. "Overall 10 year state fund returns were more influenced by manager/fund selection than by asset allocation; putting in question the conventional wisdom that 90% of performance is asset allocation. Private equity and real estate allocations were the primary driver behind the better performing state funds."37 As investors, we typically frame securities; cognitive abilities of investors are somewhat narrow and confined. As a result, investors tend to box securities. In "Behavioral Portfolio Theory," Hersch Shefrin and Meir Statman explain:

Labels, such as "stock" or "bond" provide help in processing information as they frame complex information into simple boxes. Behavioral investors begin the process of security screening by eliminating from consideration securities whose labels indicate that they are not likely to be suitable for a given layer. For example, investors might eliminate securities that carry the "stock" label from consideration for the downside protection layer because they know that, in general, stocks lack the desired properties for downside protection securities. Labels always simplify information. Unfortunately, labels also distort information.38

Like the research done by Brinson, Hood, and Beebower decades ago, Modern Portfolio Theory (MPT) is outdated and no longer modern. A new method for investing, which I call Modern Portfolio Allocation (MPA), might be more relevant in today's world of finance. MPA includes

18 UNDERSTANDING ALTERNATIVE INVESTMENTS

adding alternative investments to a stock and bond portfolio in order to create a well-diversified portfolio, with the goal of lowering risk and increasing returns. Alternative investments typically have a low correlation with stocks and bonds. As we saw with managed futures, they have a negative correlation with equities and a low correlation with global bonds. As part of our human nature, we tend to get caught up in the moment and our vision becomes myopic. Investors frequently fail to look ahead or even at what has happened in the past. While one could argue there is no guarantee of past performance continuing into the future, panicking and selling based on pure emotions tends to end in dire results. Once an investor loses money, they walk away and invariably miss the recovery. "Investors seem to attach disproportionate importance to short-run economic developments."³⁹

Today, there is finally enough data to show alternative investments move in waves. Equities, on the other hand, have a longer and more measurable track record, as Professor Richard Sylla found (Figure 0.7).

An astute investor can devise strategies around the ebb and flow of the stock market. "A wide variety of trading strategies call for buying stocks

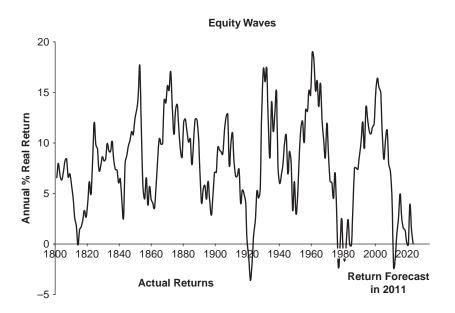


Figure 0.7 Equity Waves.

Source: Richard Sylla—Henry Kaufman Professor of the History of Financial Institutions and Markets; Professor of Economics, Stern School of Business—New York University.

when their prices rise and selling stocks when their prices fall."40 Waves with equities are nothing new; waves have been observed quite some time ago. "Early in the history of stock market indexes developed by Charles Dow, editor of the Wall Street Journal from 1900-1902 and part-owner, commentators viewed their evolution as a series of nested irregular 'waves." 41

Equity and bond information can be traced for centuries but data regarding alternative investments has been difficult to obtain because of its private nature. It is difficult to track. For example, Gjergji Cici, the former associate director of research for Wharton Research Data Service (WRDS) at the Wharton School of Business (presently an assistant professor of economics and finance at William & Mary's Mason School of Business), developed the "WRDS Guide to IPO Databases and Research" and warns that "the most widely used database in IPO research" must be used with "caution" because "it has missing information and documented errors."42 While data can differ from one organization to the next, it is becoming more accurate. In the past, this was not the case. It is very difficult to obtain information from a private transaction. More information is available with publicly traded companies. An increasing number of organizations are gathering data on LBO funds as well as on venture capital. Each organization might record data differently, which one needs to be cognizant about before making an investment decision. For instance, are we looking at apples to apples? Is the number of dollars raised or number of private-equity deals the same between the organizations collecting the data? One might record domestic data while the other records global data, which might be drastically different, leading the investor to a false conclusion about which way the private-equity market is moving. Private equity moves in waves and appears to be different from country to country. The venture capital/LBO market in Canada is different from that in the United States. For one, venture capital is much more mature in the United States as opposed to the venture capital market in Canada, which is more in its infancy; the U.S. venture capital market has been around for decades while the Canadian market has not been around as long. Therefore, waves associated with both might differ.

While the criteria are not the same, I believe that Thomson Reuters and DeaLogic are two helpful services to use for analyzing initial public

\$34.24 billion \$22.03 billion \$9.53 billion \$31.31 billion \$28.27 billion
\$9.53 billion \$31.31 billion \$28.27 billion
\$31.31 billion \$28.27 billion
\$28.27 billion
\$30.48 billion
\$35.69 billion
\$22.76 billion
\$13.17 billion
\$29.85 billion
\$26.97 billion
\$31.12 billion

Table 0.2 Initial Public Offerings (2011–2012)

Source: Jay R. Ritter, Cordell Professor of Finance, University of Florida, "Initial Public Offerings: Updated Statistics," March 29, 2013

offerings (IPOs). Likewise, Jay Ritter and Professor Alexander Ljungqvist provide excellent research with IPO data (Table 0.2).

Data can be viewed differently, depending on the source, as well as the search criteria used. Some databases are also hard to access or are extremely expensive to use especially if one is not anticipating investing on a regular basis in venture capital or IPOs. Finally, there are other databases that are new and do not track data back to any meaningful length of time.

As anyone who understands anything about alternative investments knows, they are not easy to monitor or track. Hedge funds, for example, do not have the reporting requirements that mutual funds have and are also unregulated. Hedge fund data historically is conflicting. Even indexes that were created in recent years do not match up with one another despite the fact that they were attempting to create the same reliable index. One index might include hedge funds that went out of business while the other one did not. I have found HFRI (Hedge Fund Research Inc.) to be quite helpful. Like hedge funds, information for investors regarding commodities still differs mid 2011. For example, consider commodity indexes. Commodity indexes greatly vary in composition. Major commodity indexes dropped sharply in the first week of May 2011, but some fell more steeply than others, creating a significant performance gap among indexes and investment products linked to them. 43 Considering over 2,000 hedge funds vanished in 2009, the impact was large and the numbers are very different depending on whether or not one included the 2,000 hedge funds.

Whether one is running a \$20 billion dollar pension or investing \$10,000 in an individual retirement account (IRA), there is a lot to learn about alternative investments. To an extent, institutions and high net worth investors have similar needs. "Institutional investors also face complex decisions. Some institutions invest on behalf of their clients, but others, such as foundations and university endowments, are more similar to individuals in that they seek to finance a long-term stream of discretionary spending. The investment options for these institutions have also expanded enormously since the days when a portfolio of government bonds was the norm."

3D printers, 166	as global, 93–111
22nd Annual Broker Report Card Survey,	and institutional assets, 90-2
59-60	and the market, 81-3
401(k), 82, 99	and mutual funds, 83-5, 126-7
"2011 Advisor Brandscape" (Cogent	and performance, 94
Research), 43	and public and private investments, 85–7
	and research, 52–3
A123 Systems, 171	and risk, 7
AAA, 31, 148–9	and size, 55-61
AAII. See American Association of	understanding, 79-92
Individual Investors	and volatility, 79–81
AAII Asset Allocation Models, 14–15	alternative mutual funds, 2, 4, 105-6, 126-7,
absolute-return, 3, 80, 104, 269, 274	242, 247–9
Abu Dhabi Investment Authority (ADIA), 103	Amaranth Advisors LLC, 4
ABX. See Barrick Gold	Amazon, 56, 168, 193
ACAT transfer papers, 70	America Online Inc. (AOL), 56-7
Accel Partners, 134–5	American Association of Individual
Acerbi, Carlo, 233	Investors (AAII), 14
acronyms, 224	American Capital (ACAS), 260
active management, 245-51	Amex, 96
Adams, Craig P., 62	analysts, 7, 16, 52, 58, 72-7, 104, 116, 140-1,
ADIA. See Abu Dhabi Investment Authority	143, 176, 189, 211, 215–16, 260
Adknowledge, 190	Andreessen Horowitz, 197
advisors, 61–3, 72	Andreessen, Marc, 190
"the Agg." See Barclays U.S. Aggregate Bond	angel investing, 39
Index	Angry Birds, 192–3
Alex. Brown, 55-6, 172	annualized returns, 80, 93-5, 129, 229, 238
AliveCor, 180–1	AOL. See America Online Inc.
all asset, 104	Apollo Investment (AINV), 53, 260
AlphaClone, 261	Apple, 159, 168–9, 193
Alt-A mortgages, 29	arbitrage strategies, 121
Alternative Investment Markets stocks, 96	Arch Coal Inc., 153–4
Alternative Investment Survey of U.S.	Arden Asset Management, 2, 126
Institutions and Financial Advisors, 106	Ares Capital (ARCC), 260
alternative investments	Argentina, 45
access to, 51-63	Asia, 71, 92, 96-7, 194-6, 203, 260
and advisors, 61–3, 72	asset allocation, 1, 14, 15, 17, 32, 42, 44-5,
and diversification. See diversification	52, 68, 72, 81, 88, 91, 99, 109, 157, 201–2,
and ETFs, 83–5	227-8, 232, 239, 241-3, 246, 248, 251,
and exchange traded products, 85	255, 265–79
and fees, 53–4	and manager selection, 205-11

asset allocation—Continued	bear markets, 11, 32-3, 89, 249, 251, 258
and "other assets" category, 214-16	Bear Stearns, 59, 69, 75
and portfolio construction, 44	Beebower, Gilbert, 15, 17, 211-17
process. See asset allocation process	behavioral finance, 78, 107-10, 123, 169-70
and security selection, 220-2	"Behavioral Portfolio Theory" (Shefrin and
strategic. See strategic asset allocation	Statman), 17, 224
tactical. See tactical asset allocation	Beierlein, Steve, 62
truth about, 216–20	Benchmark Capital Partners, 192
and understanding the REIT market, 203-5	Bezos, Jeff, 258
versus security selection or market timing,	big banks, 6, 17, 25, 43-9, 52, 55, 58-9, 61-3,
211–14	65–74, 76, 133, 142, 236
with or without alternative investments	Big Data, 166
(figures), 232, 276, 278	billionaire investments, and
asset allocation process, 265-79	smart money, 258
and financial analysis, 265–7	Bitcoin, 166
and implementation, 275-6	Black, Leon, 110-11
and investment policy statement, 267-8	Black Family Visual Arts Center, 111
and modern portfolio allocation, 268-74	Black Swan events, 145
and periodic review, 276	BlackRock, 104-5
asset classes, 1-2, 12-14, 30, 32, 35-9, 41,	Blackstone Group LP, 2, 35, 53, 260
44-5, 88, 100, 103-4, 106, 115, 117, 154,	Blitz, David, 242
186-7, 201-3, 213-19, 224-8, 231-3, 239,	blogging, 189-91
243, 251, 255-6, 259, 261, 267, 271-2	Bloomberg, 46
assets under management (AUM), 3, 63, 69,	Bloomberg Active Indices for Funds
86, 92, 218	(BAIF), 35
AUM. See assets under management	Bloomberg BusinessWeek, 167
Australia, 8-9, 95, 194	BMO Capital, 74
	BMW, 198
BAIF. See Bloomberg Active Indices for Funds	Bodie, Zvi, 1
"Big Bang," 25–6	Bogel, Jack, 105
Bain Capital, 53	"bond" label, 224
Bair, Sheila, 25	Bonus Agreements, 48
Baird, Robert W., 62	Booth School of Business (University of
See Robert W. Baird & Co.	Chicago), 9, 256
Balboa, Michael, 128	Borgman, L. E., 28
Bank of America, 14, 44–5, 51, 57, 60–1,	Boston Beer Company, 56
65–7, 70, 75	Bourgeois, Louise, 111
Bank Secrecy Act ("BSA"), 167	boutique firms, 55–9, 62, 70–1, 76, 124
Bank Wave, 25	"The Brave New World of Sovereign Wealth
Banker's Trust, 55	Funds," 103
bankruptcy, 6, 33-4, 66, 128-9, 156, 166,	Brazil, 97
175–6, 184, 189	Bridgewater Associates, 12, 115, 121, 218
banks today, 46–7	BrightSource Energy, Inc., 190
See big banks	Brinson, Gary, 15, 17, 211–17
Barclays Capital U.S. Aggregate Bond Index	Britton, Diane, 51
("the Agg"), 35, 37–8, 231, 238, 240, 251	Broadband Capital, 71
Barclays CTA Index, 12, 39, 41, 238, 240, 251,	Broca's Brain (Sagan), 26
254, 262	Brookside Capital, 131
Barclays PLC, 45-6, 53, 66, 71, 75, 150, 202	"BSA." See Bank Secrecy Act
"barrel," 23	BT Alex. Brown, 55
Barrick Gold (ABX), 249	bubbles, 2, 34–5, 39, 73, 147, 153–5, 182, 183–6
Barron's, 72, 106	189, 190–1, 193, 213–14, 227, 237, 271
Battery Ventures, 169	and gold, 154–5
Baum, Lauris, 26	and housing, 34–5
BDC. See Business Development	and technology. See tech bubble
Corporation	and venture capital, 184–6

Buchanan, James, 31 Charles Schwab, 46-7 "bulge bracket" firm, 24-5, 47, 52, 61-2, 70 Chartered Alternative Investment Analyst bull markets, 11, 87, 89, 150, 249, 251 (CAIA), 104 Burkle, Ron, 258 chartered financial analyst (CFA), 104 Business Development Corporation (BDC), 52 Chase, 55-6 business schools, 107-11 China, 94, 96-8, 150-2, 175-6, 194-6 CIA. See Central Intelligence Agency CAIA. See Chartered Alternative Investment Cici, Gjergji, 19 Analyst Cincor, 180 California Institute of Technology, 27 CircuLite, 180 California Public Employees' Retirement Cisco, 16 Systems, 208 Citi, 66-7, 71 CalPERS, 53-4, 80-1, 210 Citic Securities Co., 196 Cambridge US private equity, 38, 102, 238, Citicorp, 25 240, 251-3, 257, 262-3, 278 Citigroup, 25, 30-1, 45-6, 55, 59, 61, 66, Cambridge US Venture Capital, 37-8, 102-3, 75-7, 175 187, 238, 240, 251–3, 257, 262–3, 278 Class V Funding III, 30 Canada, 19, 95, 97 classes in alternative investments, 107-11 Canatu Ltd., 181 Classic Coke versus Diet Coke, 85-7 cleantech, 171-5, 181, 186, 189, 193 Capital Markets Advisory Partners, 196 Carbonite, 130 Cliffwater LLC, 113, 205 cardio companies, 166, 177-81 Clinch River Breeder Reactor, 175 CardioMEMS, 180 closed-end funds, 3, 100, 105, 108, 145, 205 CardioVax LLC, 179 cloud computing, 166-9 Carina CDO, 30-1 CNBC, 138 coal, 77, 154 Carlyle Group (CG), 2, 53, 130, 260 Case, Stephen M., 56, 258 Coates, Jack, 99 Case III, Daniel H., 55–7 Cogent Research, 43 cash, 1, 8-9, 14, 17, 28, 36-41, 44-5, 57, Cohen, Steve A., 128 61, 79, 85, 91, 95, 97, 99-105, 115, 131, Coleman, Charles "Chase," 131, 133-4, 135-7, 159-62, 172, 187, 192-3, 197, 203, 136 - 7206-11, 214-15, 220, 223, 228, 232-3, collateralized debt obligations (CDOs), 242, 255-7, 269-78 29 - 31,85CCTA. See coronary computed tomographic Collins, Sean, 28 angiography Colony Capital, 35 CDs, 203 Columbia Business School, 110 CDOs. See collateralized debt obligations Comex gold contract, 148 CDX.NA.IG.9, 67 Commercial and Financial Chronicle, 96 Cellular Dynamics, 180 commodities, 1, 3-4, 8, 10, 14, 20, 24, 29, 39, Central Bank of the Republic of Turkey, 259 41, 53, 58, 73, 76, 79, 82-6, 89, 91-2, 95, Central Intelligence Agency (CIA), 168 98-101, 104-5, 119, 130, 147-8, 151-3, CEO. See chief executive officer 154-7, 159, 174, 195, 228, 242, 246, 249, Cerulli Associates, 2, 46-7, 58-9 254, 256, 269, 272-5 CFA. See chartered financial analyst commodity indexes, 20, 242 changing financial landscape, 65-78 commodity pools, 174 and alternative investments, 72-3 commodity waves, 29 and big bank woes, 65-7 computed tomographic (CT) angiography, 178 and financial nomads, 69-70 Conditional Value-at-Risk (CVaR), 237-41 and investment banks, 70-2 conflicts of interest, 140-3 and knowledge as power, 72-3 conservatism, 77 and new financial products, 67-8 Controlled Substance Act (1970), 167 and regulation, 74-6 coronary computed tomographic and research quality, 76-8 angiography (CCTA), 178 and trends, 75 corporate bonds, 87 The Changing Role of Hedge Funds in the correlation, 224 Global Economy (Ehrlich), 90, 113-14 Corventis, 179

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Countrywide, 59	Dow, Charles, 19
covariance, 223	Dow Jones, 10, 87
Credit Default Swaps, 28-9, 67	Dow Jones Newswire, 2
Credit Suisse Group AG, 45-6, 71, 75, 95,	Dow Jones VentureSource, 161-2, 176
127, 202	"drivers," 32, 149
Crosslink, 130	Dropbox, 164, 190, 198
crowdfunding, 172–4	DST Global, 136–7
CTA Global, 88	due diligence, 4, 51, 127, 129, 133–4, 143
Cuban, Mark, 258	Dynasty Financial Partners LLC, 53
CVaR. See Conditional Value-at-Risk	Dynasty Thancial Farthers EEC, 55
"Cyclicality, Performance Measurement, and	FarlyBird Capital Inc. 71
	EarlyBird Capital, Inc., 71
Cash Flow Liquidity in Private Equity"	economic cycles (figure), 89
(Robinson and Sensoy), 9	Economist magazine, 195
D.11. 1 . M	Edward Jones, 51, 57, 60, 63
Dahlquist, Magnus, 243	Efficient Market Hypothesis (EMH), 16
Dalio, Ray, 12, 121	Ehrlich, Everett M., 90, 113
Darden School (University of Virginia), 9	Einstein, Albert, 25
Dartmouth College, 111	El Dorado Ventures, 168
David Polk Regulatory Tracker, 40–50	election-year politics, 77
Davis Polk, 49, 124–5	emerging markets, 15, 87, 92, 94, 100-1, 108,
de Laplace, Pierre Simon, 226	120, 248, 269
"Dead Presidents," 31	EMH. See Efficient Market Hypothesis
DeaLogic, 19	energy policy, and the market, 77–8
Dean Witter, 55	Energy Recovery Inc., 193
debt, 3, 11, 29-31, 35, 40, 50, 85, 87, 97,	enStratus Networks Inc., 168
100-1, 110-11, 119, 148-50, 173, 196,	entrepreneurship, 57, 97, 106-7, 109, 111, 135,
205, 242, 245, 255, 258	160, 167, 170, 190, 193, 195–8, 201–2
and education, 110–11	Equinox, 249
See debt crises; distressed debt	equities, 1–2, 4, 8, 11, 18–19, 33, 35, 37–8, 41,
debt crises, 11, 50, 119, 258	44–5, 69, 79–81, 87–90, 94–6, 99–105,
desalination, 193–4	117, 120, 147–8, 156–7, 187, 202–3, 206,
Deutsche Bank, 46, 55, 71, 75, 127	214, 216, 217, 222, 223, 225, 228, 233,
devising portfolios, 245–63	238–58, 262, 267–77
and active management, 245–51	equity hedge, 108, 118–19, 121, 125, 202, 231
and comparisons between portfolios,	equity mutual funds, 126, 256
246–7	equity-risk premium, 76–7
and LBO funds, 256	equity trusts, 203
and managed futures, 254–61	equity waves, 9, 18, 28
and passive management, 251–4	Equity Office properties, 259
and private equity ETFs, 261	Ernst and Young, 96
and real estate, 261–3	ETF. See exchange-traded fund
and venture capital, 256	European debt crises, 119
Digital Sky Technologies Global Ltd., 136	Event Driven, 108, 118–19, 121, 125, 157
Dilberto, Roy, 59	Evergreen Solar Inc., 175–6
distressed debt, 3, 12, 85, 104, 242	exchange-traded funds (ETFs), 3-4, 10,
Distressed Hedge Fund Event Driven, 121	83–5, 90, 94–5, 101, 105, 125–6, 147–8,
diversification, 1–2, 4–6, 12, 14, 18, 29, 36,	150, 156, 210, 233, 242, 261, 266, 273
41–2, 44, 47, 51, 54, 68, 72, 79, 87–90,	exchange-traded products, 85
94–104, 108, 127, 129, 156, 201–5, 208,	Executive Summary of "Exotic to
211, 221–2, 223–4, 227–8, 230–2,	Mainstream," 103-4
245-63, 268, 272-7	Exencial, 24
as not limited, 87–90	
Dodd-Frank, 48-50, 58, 123, 155, 172	Facebook, 36, 58, 73, 86, 131, 134-43, 166,
DOE. See U.S. Department of Energy	168, 191–3
Doerr, John, 171	fiasco, 134-40
DOJ. See U.S. Department of Justice	IPO, 58, 73
Don't Count On It! (Bogel), 105	Falcone, Philip, 128–30
· · · · · ·	1 1

Falklands Islands, 45 FREE-D. See Free-Range Resonant Electrical Fannie Mae, 10, 48 Energy Delivery System "FarmVille" (game), 164 Free-Range Resonant Electrical Energy "fat tails," 234, 237, 239 Delivery System (FREE-D), 178 FTSE NAREIT, 203 FBR Capital Markets, 71 FCC. See Federal Communications Fusion-io, 168-9 Commission FusionStorm Global Inc., 168 fear, 68, 109, 123-5, 143, 148 futures, 89, 254-61 Federal Communications Commission See managed futures (FCC), 129-30 Federal Deposit Insurance Corporation, 25 Galleon Group (Raj Rajaratnam), 128 federal housing administration mortgages, 10 Galvin, William, 74, 140 Federal Reserve, 50, 68-9, 197 Gauss, Carl Friedrich, 226 Federal Reserve Bank of Dallas, 65, 69 Gazzang, 168 Fidelity Investments, 2, 126, 164, 274 GDP. See gross domestic product Fifth Amendment of U.S. Constitution, 175 General Motors Co., 171 Financial Advisor magazine, 216 George, Esther, 70 financial advisors, 43-50 Germany, 68, 95, 148, 152, 165-6, 236 and banks today, 46-7 Glass-Steagall, 25, 49, 55, 174-6 and Dodd-Frank, 48-9 Glencore International PLC, 153-4 and government regulation, 49-50 Global (Norway's Government Pension The Financial Crimes Network Fund), 103 ("FinCEN"), 167 global financial crisis, 68, 102 Financial Industry Regulatory Authority, See Great Recession 139 - 40Global Macro, 119-21 financial nomads, 69-70 global nature of alternative investments, 93-111 Financial Stability Oversight Council, 48 Global Private Equity Port. (PSP), 260 financial waves, 24, 28-33 global venture capital and IPOs, 165-6 "FinCEN," "The Financial Crimes Global X, 261 Network," 167 Goedhart, Marc, 225 Fire & Police Pension Association of gold, 4, 34, 36-7, 73, 85-6, 89, 101, 147-57, Colorado, 115 213, 221, 228-30, 247-50, 254, 262, 271-2 Firm by Firm: Tally of Awards Won by and bubble trouble, 154-5 86 Research Firms (The Wall Street and calamities, 148, 151 and global gold, 150-1 Journal), 74 First Eagle, 250 and gold bugs, 150 Firstenberg, Paul B., 145 and gold correlations, 156-7 Firsthand Technology Value, 141 and government, 155-6 Fisher, Richard, 70 and reversion to the mean, 147-8 Fisker Automotive, 171 and supply and demand, 148-50 Fitch, 30 and waves, 152-4 fixed income, 3, 8, 10-11, 28, 38, 86-7, 94, 99, Gold Wave VI, 147-8, 152, 155 Goldman Sachs, 44-4, 71, 74, 75, 80, 127-8, 103-4, 108, 120, 187, 202, 206, 210, 228, 231, 242, 248, 251–2, 269–70, 273–4 135-7, 164, 191 Florida, living in, 79-80 Goldman Sachs Asset Management, 44-5, 80 Flowers, Michael, 156 Gompers, Paul, 169 "Foolish Money," 129 Google, 159, 164, 193 Forbes 400 list, 81 Gorman, Jim, 138 foreign bond waves, 28 government regulations, 49-50 Form S-1, 138-9, 164, 192 Great Depression, 29, 49, 88 Fortress Investment (FIG), 260 Great Recession, 2-10, 25, 28-9, 34-5, 39, "Four Horsemen," 56 43, 48, 51, 55, 59, 65-8, 77-9, 87-8, 90, Frampton, Paul, 26 113-14, 126-9, 143, 145, 148, 160, 170, Franklin, Benjamin, 105 184-8, 194-7, 213, 230, 237, 256, 261 fraud, 128-9, 143, 173 Greece, 29, 148-9, 258 freak waves, 5-6, 28 Greentown labs, 174 Freddie Mac, 48 Grell, Kevin Berg, 172-3

Copyrighted material – 9781137370181

Gresham Investment Management LLC, 105	high yields, 40, 87, 101, 117, 203, 238
Greylock, 136–7	HighTower Advisors, 53
gross domestic product (GDP), 87	Hoernemann, Jeffrey, 219
Groupon, 131–2, 163–5	HOF Composite, 120
growth waves, 28	Home Depot, 159
GSV Capital, 141	Hong Kong, 98
Guidewire Software, 169	Hood, Randolph, 15, 17, 211–17
Gultejin, Nihat Bulent, 259	Hospital Corporation of America (HCA), 259 HSBC, 45
H&Q. See Hambrecht and Quist	Hurricane Andrew (1992), 80
Hadoop, 167	Hurricane Charley (2004), 80
Hambrecht and Quist (H&Q) (San	"The Hybrid Hedge," 101, 106–8,
Francisco), 55–6	126-7, 130-2
Hanlon Financial Group, 24	Hype, 134–5
Harbinger Capital (Philip Falcone), 128	
Harris, Robert, 9	Ibbotson, Roger, 207, 212, 217, 239
Harvard Business School United States	IBM, 167, 209
Competitiveness Project, 50	Icahn, Carl, 110
Harvard University, 50, 126	iCloud, 168
Harvey, Campbell R., 243	Ikaria Inc., 180
HCA. See Hospital Corporation of America	Iksil, Bruno Michel, 49
Hedge Fund Research (HFR), 114	illiquidity, 6, 70, 83–4, 99, 102, 107, 126, 130,
Hedge Fund Research Inc. See HFRI	233, 266–8
hedge funds, 20, 24, 35, 82, 91, 113–45	"In Determinants of Portfolio Performance"
and alternative mutual funds, 126–7	(Brinson, Hood, and Beebower), 15,
and behavioral finance, 123	17–18, 211–17
and buying research or trouble, 127–30	Index IQ, 127
and competition, 132–4	index tracking corporate credit, 67
and conflicts of interest, 140–3	indexes, 12, 19, 20–1, 32–7, 41, 49, 67, 84,
and Facebook, 134–40	88-90, 94, 105-6, 114, 120, 124-7, 201,
and the future, 143–5	220-1, 229, 231, 238-41, 245-7, 254,
and government intervention, 128	266, 268
and growth of assets (figure), 114	India, 85, 97, 150–1, 195–6
and hybrid hedge model, 130–2	individual retirement account (IRA), 21
and increased regulation, 123–5	inflation, 148
and indices, 122	Infosphere BigInsights, 167–8
and inflows and outflows (figure), 115	Infraredx, 179
and strategy, 119–21, 125–6	infrastructure, 85, 92
and top ten, 218	initial public offerings (IPOs), 19–20, 48,
and waves, 29, 116–22	56-8, 58, 71, 73, 82, 96-7, 101, 109,
HFR. See Hedge Fund Research	133–43, 153–4, 159–65, 170–1, 175–7,
HFRI (Hedge Fund Research Inc.), 20, 37–8,	181–8, 194–6, 199–200, 242
88, 120–1, 187, 202, 231, 238, 251–3, 257,	and Facebook, 58, 134–43
262–3, 278	and global venture capital, 165–6
HFRI Equity Hedge, 202, 231	and IPO Databases, 19, 20
HFRI Fund Weighted Composite, 37–8,	and IPO waves, 28, 56
88, 120, 187, 238, 251–3, 257, 262–3, 278	and pre-IPO research, 73–4
HFRI Indices, 120	InMobl, 190
HFRI Indices Annual Investment	In-Q-Tel, 172
Returns, 120–1	"insider trading," 127–8
HFRI Macro, 88	institutional assets, 90–2
Hibernia Atlantic, Inc., 190	institutional investors, 1–2, 7–8, 14, 28–9,
high net worth investors, 1–2, 12, 21, 39, 44,	35, 54, 83, 91–2, 107, 113–15, 129, 132–3,
52–3, 57, 65–6, 72, 83, 86, 91–2, 102,	138, 140, 147, 149, 170, 222
107, 132–3, 183, 198–9, 208, 210–11, 224,	interest rates, 41, 45, 61, 79, 87, 89, 149, 254,
268, 277	259, 261–2
,	

INDEX 313

International Stock, 15, 38-9 Koller, Tim, 225 Internet, 44, 73, 131, 164-6, 181-2, 189-92, 217 Kovner, Anna, 169 InterValve, 179 KPMG, 2, 50 investment banks, 7-8, 46, 57, 65, 70-1, Kravis, Henry Robert, 110 142-3, 175-6 Krawcheck, Sallie, 66 Investment Company Institute, 84, 90 Kroll, 129 investment policy statement (IPS), 267-8 Krongard, Buzzy, 172 The Investment Process in Investments (Bodie, kurtosis, 234-9 Kane, and Marcus), 1 Kuwait Investment Authority (KIA), 103 Iowa land, and investment, 261-2 iPad, 217 labels, 17 iPhone, 180, 192 Lacker, Jeffrey, 70 IPOs. See initial public offerings Ladenburg Thalmann & Co., 63 IPS. See investment policy statement Laser, Ross, 128 IQ Hedge Multi-Strategy Tracker, 126 layoffs, boom in (2011-2012), 45 IRA. See individual retirement account LBO. See leveraged buyout iShares Diversified Alternative Trust (ALT), LCD. See liquid-crystal display 104 - 5Lefkofsky, Eric, 163-4 Israel, 97, 194 Lehman Brothers, 6, 59, 65-6, 75 Issa, Darrell, 142 Lerner, Josh, 169 leveraged buyout (LBO), 8-9, 19, 24, 29, 34, J.C. Flowers & Co., 156 41, 53, 97-8, 101, 104, 130, 182, 195, 224, Janney Montgomery Scott LLC, 53, 57, 62-3 238, 242, 245-6, 256-61 Jefferies & Co./Deutsche Bank Securities, funds, 8-9, 19, 34, 101, 130, 256-61 71, 75 waves, 9, 29 Jenkinson, Tim, 9 Libor, 61 "light" waves, 26 jewelry, 150-1, 230, 248 JOBS Act (Jumpstart Our Business LightSquared, 128-30, 190 Startups), 172-4 LinkedIn, 131-4, 164-5, 191 Johnson, Andrew, 31 liquid-crystal display (LCD), 181 Johnson Rice & Co., 71 liquidity, 7, 9-10, 14, 99, 102, 117, 126, 176, 233, 248, 256, 265-6 JP Morgan, 14, 45, 49, 53, 66-70, 75, 80, 135, 229, 235, 274-5 Litowitz, Alec, 128 Jumpstart Our Business Startups. LivingSocial Inc., 131-2, 190 See JOBS Act Ljungqvist, Alexander, 20 junior advisors, 43-4 load waived (LW), 247 junk bonds, 31, 117 lobbying, 47 Junkans, Dean, 219 London Stock Exchange, 96 London Whale, 68, 80-1 Kane, Alex, 1 Lone Pine Capital, 131 Kaplan, Steven, 9, 256-7 longitudinal waves, 25 Karp, David, 190 long-term investing, 44, 70, 101, 104, 136, 152, 154, 159, 224-5, 227, 242-3, 268 Kasten, Gregory, 227 Kauffman Foundation, 160 See strategic asset allocation "Kauffman Index of Entrepreneurial lower partial standard deviation (LPSD), 235 Activity," 160 LPL Financial, 24 Kerns, Jerry, 100 LPSD. See lower partial standard deviation Ketchum, Rick, 139-40 Luminous Capital Holdings LLC, 24 Khosla, Vinod, 171 Lunar New Year, 151 LW. See load waived Khosla Ventures, 171 KIA. See Kuwait Investment Authority Kickstarter, 173, 197-8 M&A. See mergers and acquisitions Kirk, Randal, 258 Macquaire Group LTD, 45 KKR, 260 Macro, 118

Madoff, Bernie, 4, 129, 143, 262

Mail.ru group, 136-7, 165

Kleiners Perkins Caufield & Byers, 179

Kojima, Christopher, 80

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Malkiel, Burton Gordon, 145	Modern Portfolio Allocation (MPA), 17–18,
managed futures, 3, 8, 12–14, 18, 24, 29, 36,	42, 223–43, 268, 271–2
38–41, 80, 88–90, 101, 106, 108, 174,	defined, 227–30
228-9, 243, 254-61, 269, 274	figure, 228
and devising portfolios, 254–61	and risk and return ratios, 230–5
and funds, 89, 174, 254	and risk measurements, 235–43
and portfolio protection, 258	and theory, 226–7
and waves, 29	and waves, 225–6
Marcus, Alan, 1	Modern Portfolio Theory (MPT), 17–18, 100
Marcus, Bernie, 159	224–7, 232
market and alternative investments, 81–3 market crash, 90	Modified-Conditional Value-at-Risk (M-CVaR), 239–43
market neutral, 3, 88, 104-5, 108, 116-17,	Modified Value at Risk (MVAR),
202, 247–9	236-7, 239-41
market timing, 15, 207, 211–15, 219–20, 228	Moisand, Dan, 213
Markowitz, Harry, 226	money-market funds, 48, 90
Markowitz mean-variance optimization,	MoneyTree TM Report, 186
226, 231	Montgomery Securities, 55–6
Mason School of Business (William &	Moody's, 30
Mary), 19	Morgan Stanley (MS), 25, 31, 39–40, 45,
Massachusetts Institute of Technology	48-9, 51, 55, 57-8, 60-2, 66, 71, 74-6,
(MIT), 256	135–6, 138–43, 164–5, 191, 248
Massolution, 172	Morningstar, 75, 79, 83, 100, 106, 207, 229,
Maxim Group LLC, 71	239, 247–9
MBS index, 88	Morningstar Alternative Mutual Funds, 249
MCG Capital (MCGC), 260	mortgage trusts, 203
McGraw-Hill, 106	Moscow Interbank Currency Exchange
McKinsey & Co., 2–3, 92, 128, 225	(MICEX), 196
M-CVaR. See Modified-Conditional	MPA. See Modern Portfolio Allocation
Value-at-Risk	MPT. See Modern Portfolio Theory
mean return, 225	MS. See Morgan Stanley
mean variance optimization (MVO), 225-6,	MSCI EAFE Index, 87
231, 237	MSCI World Index, 116
Medical Marijuana, 166–7	Mt. Eden Investment Advisors LLC, 24
megabanks, 25	Mt. Gox, 166
Mendoza, Jose Miguel, 133	municipal bonds, 30, 70, 87, 90, 130, 202-3, 269
merger-arbitrage, 104	mutual funds, 2–4, 20, 44, 48, 83–5, 87–90,
mergers and acquisitions (M&A), 24, 28, 48,	94, 100–1, 104–8, 120, 123, 125–7, 130,
65, 69, 107, 109, 143, 153, 159–62, 182–3	132, 134, 140–1, 145, 149–50, 156, 164,
The Merion Cricket Club, 106	183, 203, 207, 210, 212, 220–1, 230, 233,
Merrill Lynch (Bank of America), 31, 44, 51,	242, 245–51, 256, 259–62, 266, 268, 273
57, 59–61, 66–7, 75	MVAR. See Modified Value at Risk
MF Global Holdings Ltd., 155–6	MVO. See mean variance optimization
Microsoft, 16, 56, 154–5, 168, 193	MyCityWay, 198
MICEX. See Moscow Interbank Currency	MySQL, 191
Exchange	
microwaves, 26	nanotechnology, 181
middle class (U.S.), 10	NAREIT. See National Association of Real
middle market firms, 59	Estate Investment Trusts
Millburn Corporation, 258	Nasdaq, 33, 96, 141, 164-5, 189, 192, 241
Millennium Global Emerging	National Association of College and
Credit Fund, 128	University Business Officers, 223
Milner, Yuri, 136	National Association of Real Estate
mining companies, 94–5, 98, 153–4, 221,	Investment Trusts (NAREIT), 37–8, 40,
230, 249–50	102, 187, 203-4, 238, 240-1, 251-3, 257,
Mizuho Financial Group Inc., 30	262–3, 278

INDEX 315

PayPal, 136 National Heart, Lung, and Blood Institute, 178 National Venture Capital Association PCS. See partial circulatory support (NVCA), 162, 184, 186 peaks, 34, 36, 89, 147, 153, 160, 177, 234-7 NationsBank, 55 pension funds, 7-8, 35, 54, 80, 93, 115-16, Natixis, 127 149, 208, 230, 273 pension plans, 15, 21, 35, 90-1, 93-4, natural gas, 4, 77, 86 98-103, 113-16, 205, 211-15, 219-20, NEA, 169 "net operating losses" (NOLs), 184 223, 255, 267 Pension Reserves Investment Trust, 115 Netscape Communications, 190 new financial products, 67-8 pension systems, 17 New Jersey Division of Investment, 2, 115 Pensions and Investments (P&I), 10, 83, 91, 99-100, 103, 114, 116, 169, 209 New York Stock Exchange (NYSE), 96 "Pensions Leap Back to Hedge Funds" (The New York University, 225 Nietzsche, Friedrich, ix Wall Street Journal), 93 Nike, 160 Pentagon, 168 NOLs. See "net operating losses" Peregrine, 155 normal curve, 226, 231-41 Perelman, Ronald, 110 nuclear, 77, 148 Perkins, Tom, 172 PERS. See Ohio Public Employees Nuveen Investments, 105 Nuveen Long/Short Commodity Total Retirement System pharmaceuticals, 190, 258 Return Fund, 105 NVCA. See National Venture Capital physical asset, 6 Association Picard, Irving, 143 PIMCO, 104 Nyppex, 183 Plastic Logic Ltd., 190 NYSE. See New York Stock Exchange Plosser, Charles, 70 Oaktree, 12 PNC bank, 44 Pocket Micro-Pump, 180 Obama, Barack, 176 Occupy Wall Street, 24 politics, 77 Ocean Power Technologies Inc., 27 Ponzi scheme, 129 Portal Alliance, 183 ocean waves, 11, 23, 26-33, 37, 185 Ohio Public Employees Retirement System Porter, Michael, 50 portfolio protection, and managed (PERS), 115 oil, 34, 45, 73, 77, 86, 98, 155-6, 172, 250 futures, 258 Olukotun, Oye, 179 PowerBuoy, 27 Oppenheimer & Co., 57, 62-3, 71, Powershares DB Commodity Index, 246-7 75, 139, 248 Powershares Global Listed Private Equity Osprey Medical, 180 Portfolio, 261 Pramod Bonde, 178 OTC. See over-the-counter "other assets" category, 214-16 Preqin, 40, 98, 113, 121, 189, 256 over-the-counter (OTC) derivatives, 67 Priceline, 193 "Own More 'Alternatives" PricewaterhouseCoopers LLP (PwC), 177, (Smart Money), 79 182, 186, 189 Oxford-Man Institute of Quantitative Private Capital Research Institute, 238 private equity, 8-9, 12, 14, 17, 19, 33-5, 40, Finance, 9 48, 50, 52-3, 69, 71, 77, 82-4, 91-4, 97,

Pandora, 131, 164–5
panicking, 18, 24, 55, 102, 126
ParkatmyHouse, 198
Parker, Sean, 258
Parsons, Richard, 25
partial circulatory support (PCS), 180
passive management, 251–4
Paul Tudor Jones, 113
Paulson, John, 262
Paulson & Co., 262

Preqin, 40, 98, 113, 121, 189, 256
Priceline, 193
PricewaterhouseCoopers LLP (PwC), 177, 182, 186, 189
Private Capital Research Institute, 238
private equity, 8–9, 12, 14, 17, 19, 33–5, 40, 48, 50, 52–3, 69, 71, 77, 82–4, 91–4, 97, 102–4, 107, 124, 130, 132, 156, 162, 165, 167, 200, 206, 208, 210, 217–18, 223, 228, 238, 240, 242, 245, 251–63, 269–75, 278
See leveraged buyout; venture capital private exchanges, 86, 183–4, 193
privately placed limited partnerships, 174
PrivCo, 138
process of asset allocation. See asset allocation process
Project Nina, 171

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Promissory Notes, 48	reward-to-volatility ratio. See Sharpe ratio
prospect theory, 16	RIAs. See registered investment advisors
"Protest Wave," 24	risk management, 16
public and private alternative investments,	risk measurements, 235–43
85–7	and return ratios, 233-5
publicly traded private equity firms, 260	and Sharpe ratio, 234
Purcell, Philip, 25, 55, 142	and Sortino ratio, 235
PwC. See PricewaterhouseCoopers LLP	and Treynor ratio, 233
	understanding, 230–3
quant funds, 116-17	See Conditional Value-at-Risk;
quarterly data, 5, 53, 114-16, 121, 127, 186,	Modified-Conditional Value-at-Risk;
217, 239–41, 258	Modified Value at Risk; value-at-risk
	Ritter, Jay R., 20
radio waves, 26	Rivkin, Jan, 50
railroads, 94	RJF. See Raymond James Financial, Inc.
Rajaratnam, Raj, 128	Robert W. Baird & Co., 62-3, 74-5
Ramius, LLC, 72	Robertson Stephens, 56
Raymond James and Associates, 51, 57, 60,	Robinson, David T., 9
62–3, 71, 74	Rodman & Renshaw, 71
Raymond James Financial, Inc. (RJF), 53, 75	rogue waves, 5, 23-4, 28, 31, 117, 145,
RBC Wealth Management, 44, 57, 62–3, 71, 75	225–7, 236
real estate, 1, 3, 7–11, 14, 17, 24, 29, 34–41, 45,	"The Role of the Private Equity Sector
48, 53, 73, 76, 82–6, 91–2, 93–4, 100–4,	Promoting Economic Recovery"
108-9, 130, 147-8, 153, 195, 202-6, 210,	(Shapiro), 33-4
214-15, 223, 227-30, 241-2, 246-51,	Rosa, Dave, 179
256, 261–3, 269, 271–5	Roth Capital, 71
waves, 29	Rothstein, Scott, 129
See real estate investment trusts	Royal Bank of Scotland Group PLC, 45
real estate investment trusts (REITs), 7-8,	RTD Financial Advisors, 59
40, 73, 85, 100-1, 202-5, 228, 240-2,	RTM. See "regression to the mean"
246–7, 269	Rubin Jr., Louis J., 26
Reata Pharmaceuticals, Inc., 190	Russell 1000 Growth, 33
Red Rocks Listed Private Equity Index, 261	Russell 2000, 203
Reed, John, 25	Russia, 136, 152, 165-6, 196, 258
registered investment advisors (RIAs), 24,	Russian Trading System (RTS), 196
46–7, 62, 123	Russian Venture Company, 166
Registered Rep, 51	Rydex/SGI, 127
"regression to the mean" (RTM), 36-7	
regulation, 7, 46, 48-50, 72, 74-6, 92, 108,	S&P 500, 5, 9, 33, 36–9, 40–1, 81, 87, 116,
123-6, 142, 156, 165-6, 173, 196-7	119-20, 187, 202-4, 207, 229, 231, 238,
"regulatory arbitrage," 132	240, 251–4, 257–8, 262–3, 271
REITs. See real estate investment trusts	S&P500 Composite, 238, 251, 257
(REITs)	S&P GSCI, 38–9, 187, 238, 240, 251–3, 257,
relative value, 108, 118-19, 121, 125, 157	262–3
replicator funds, 127	SAC Capital, 128
request for proposal (RFP), 221	Sagan, Carl, 26
research, 73–7	Saïd Business School (Oxford University), 9
Research Magazine, 84	Salesforce.com, 168
research to alternative investments, 52–3	Salomon Brothers, 72
Reserve Primary Fund, 148	Sam Adams (Boston Beer Company), 56
retirement, 21, 59, 82, 115, 208-9, 213, 245,	sample portfolios, 265–79
273, 275	Sandler O'Neill + Partners, 65
and 20 largest retirement funds, 209	Sarbanes-Oxley, 48, 132, 165, 176, 183
The Retirement Advisor, 213	Saudi Arabia, 194
"Retirement Ready" (2011) (Worth), 82	Saverin, Eduardo, 258
Reuters, 140	SBA. See U.S. Small Business Administration

Scandolo, Giacomo, 233 Solyndra, 172, 174-6 Scharfstein, David, 169 Sortino ratio, 235, 238 Schmidt, Eric, 258 South Korea, 97 Schoar, Antoinette, 256-7 sovereign wealth fund (SWFs), 80, 102-3 Schwab, 65 Spain, 95, 165-6, 194 Schwab Advisor Services, 24 Spark Capital, 192 Schwartzman, Stephen, 110 "Special Review of placement agent activity" SEC. See Securities and Exchange (CalPERS), 53-4 Commission SpectraWatt, 176 SecondMarket, 183 Spitzer, Eliot, 73, 127, 176-7 Securities and Exchange Commission (SEC), Standard Chartered Bank, 45 30, 48, 74, 123-4, 127, 129, 134, 136, 139, standard deviation, 80, 88, 201-2, 217, 223, 225, 230-2, 234-5, 237-9, 241, 255, 165, 172, 174, 186-8 security selection, 15, 203, 205, 211, 213-22, Standard & Poor's, 30-1, 75, 202 228,274-5SEI, 103, 105 See S&P 500 Sellers of Alternative Investments (figure), Stanford, Allen, 129 51 - 2Stanford University, 107-8 selling blindly, 102 Starbuck's, 56 Sempra Energy, 174 Statement of Financial Accounting Standards No. 157 (SFAS 157), 126-7 Sensoy, Berk A., 9 separately managed accounts (SMAs), 205 Statman, Meir, 17, 224 Stausboll, Anne, 53 SharesPost, 183 Sharpe, William F., 234 Steinhardt, Paul, 26 Sharpe ratio, 201, 234-5, 238, 246-8 Stern School of Business (New York Shefrin, Hersch, 17, 224 University), 225 Shenzhou-8 spacecraft, 176 Sterne Agee Financial Services, 63, 75 Stifel Financial Corp., 55, 57, 63 short selling, 88, 104 "stock" label, 224 short-term investing, 15, 90, 132, 224-5, 241-3, 261 "stock market overreaction," 11-12 See tactical asset allocation strategic asset allocation, 42, 60, 216-19, 224, Shrem, Charlie, 166 227-8, 241-2, 251, 268, 272, 279 "side pockets," 130 Strategic Insight, 2, 103, 105-6 Siegel, Jeremy, 207 Stratos Wealth Partners, 62 Strauss, Thomas, 72 Siemens, 194 SIFIs. See systemically important financial Stucke, Rüdigger, 9 institutions student debt, 110-11 "style drifter," 131, 213-14, 249 Siguler, George, 12 Siguler Guff & Co., 12 subprime mortgages, 3, 5, 6, 8, 29-31, 262 Silicon Valley, 141, 160, 171, 182, 190 Summit Partners, 169 Silver Lane Advisors LLC, 24 Sunshine Heart Inc., 179 single-strategy hedge funds, 275 surfers, 23, 28, 83, 163 skepticism, 5, 79, 215 sustainability, 166 Sloan School of Management (MIT), 256 SWFs. See sovereign wealth fund SMAs. See separately managed accounts Swisher, Peter, 227 smart batteries, 171 Sylla, Richard, 18-19, 225 Smart Money, 79 systemically important financial institutions smart money, 2, 35, 54, 80, 88, 93-111, (SIFIs), 48 113-15, 129, 133, 136-8, 147, 149, 208, 256, 258, 268 T. Rowe Price Group Inc., 164, 203, 207 tactical asset allocation, 42, 91, 213, 216-24, Smith, Joshua, 178 Snapchat, 193 241 - 3social media, 36, 131, 181, 190-2, 258 "tail risks," 225 TARP. See Troubled Asset Relief Program solar energy, 77, 172-6 SolarPower Inc., 174 Tass, Lipper, 117 SolarReserve, 174 TBTF. See Too Big To Fail

TCW, 130	U.S. State Pension System, 17, 205–6
tech bubble (2000), 2, 39, 73, 147, 153, 181,	U.S. Treasury Department, 69, 80, 104, 119,
189, 190–1, 193, 213–14, 227, 237, 271	149–50, 167, 234, 271
Terahertz waves, 26–7	and bonds, 80, 234, 271
Tesla Motors, 171	and inflation protected securities, 104
"Testing Time Sovereign Wealth Funds in	and treasury debt, 150
The Middle East & North Africa and	U.S. Troubled Asset Relief Program
The Global Financial Crises" (2009)	(2008), 97
(Monitor), 102	U.S. Veterans Affairs, 10
Texas Teachers, 208	UBS, 14, 45–6, 51, 55, 57, 60–1, 66, 71, 75
Thiel, Peter, 136–7	UBS Investment Bank, 71
Thomas Weisel Partners, 55	UCITS. See undertakings for collective
Thomson Reuters, 19, 184	investment in transferable securities
"three legs to a stool," 206–7	UITs. See unit investment trusts
Tiangong-1 laboratory, 176	uncertainty, and the market, 77, 148
"Tiger 21," 272	unconstrained investments, 104
Tiger Global Management LLC, 131, 133–4,	Understanding Alternative Investments, 1, 23,
136–8	2
	41–2, 224
timber, 10, 84–5, 101, 242	undertakings for collective investment in
TIPS. See Treasury Inflation-Protected	transferable securities (UCITS), 105
Securities	underwriters, 58, 71, 132–3, 135, 137–41, 164
Tōhoku earthquake and tsunami (2011), 148	191, 199
Tonopah Solar Energy, 174	rankings (2011–2012) (table), 71
Too Big To Fail (TBTF), 48, 68, 142	Union Square Ventures, 160, 169, 192
TPG, 53	unit investment trusts (UITs), 90
transparency, 7, 47, 124–6	United Arab Emirates, 194
transverse waves, 25, 27	United Capital, 24
Travelers Group Inc., 25	university education, cost of, 110–11
Treasury Inflation Protected Securities	university endowments, 21, 114
(TIPS), 88, 104	University of Chicago, 9, 256
Trends in State Pension Asset Allocation and	University of Minnesota, 198
Performance for 2012 (Cliffwater), 15	University of North Carolina, 26
Treynor ratio, 233, 238	University of Oxford, 9, 133
Troubled Asset Relief Program (TARP), 160	University of Pennsylvania, 259
True Car, Inc., 190	University of Virginia (UVA), 9, 107
Trump, Donald, 110	UVA. See University of Virginia
Tumblr, 189–91, 198	
Turkey, 97, 165–6, 259	valuation and venture capital, 189–93
Turner, Ted, 258	Valuation Measuring and Managing the
Turok, Neil, 26	Value of Companies (Koller, Goedhart,
Twitter, 169, 190–2	Wessels), 225
TXU, 259	value waves, 28
	value-at-risk (VaR), 229, 235-41
U.S. Bills, return on (1900–2000), 96	Vanguard, 41, 105-6, 246-8
U.S. Commodity Futures Trading	Vanguard 500 Index, 247
Commission (CFTC), 155	Vanguard 500 Index Admiral, 246
U.S. Department of Energy (DOE), 171	Vanguard Long-Term Bond
U.S. Department of Justice (DOJ), 167	Index, 246–8
U.S. dollar, rising, 152	Vanguard REIT Index, 246
U.S. endowments, 114	Vanguard S&P 500 index, 41
U.S. government, 25, 76, 172, 174–5	VaR. See value-at-risk
U.S. Home Construction ETF, 10–11	variability, 88, 102, 211-12, 216, 219, 231,
U.S. home prices, fluctuations in, 29	234, 241
U.S. Pension Plans, 220	variance, 88, 202, 217, 223, 225-6, 230-1,
U.S. share of world exports, 94–5	237, 239
U.S. Small Business Administration (SBA), 160	Vascular Magnetics Inc., 181

venture capital (VCs), 1, 8, 10, 14, 19–20, 24,	and alternative investments, 225-6
29, 36–41, 53, 56–8, 71–2, 82, 85–6, 94,	and farmland, 262
97–9, 101, 104, 109, 129–36, 142,	and gold, 147, 152
159–200, 203, 213–14, 224, 228,	and hedge funds, 116–22, 217
238, 240–2, 251, 255–9, 262	and informed decisions, 33-42
and behavioral finance, 169–70	"IPO waves," 56, 182
and bubbles, 184–6	and LBO, 259
and fundraising, 162	and oceanic waves, 27–33
and funds, 86	and peak signals, 153–4
as global, 165-6, 194-6	and reversal, 151–3
and indexes, 41	in science, 25–7
and new areas, 166–71	types of, 27
and new wave of, 181–4	understanding, 33-42
and riding the right wave, 176–81	and venture capital, 160-2, 174
sectors of, 186–9	See rogue waves
and surfing alone, 193-4	wealthiest individuals in the United States,
and surfing anywhere, 196–8	81–2
and surfing as competitive, 198–200	Weill, Sanford, 59
and surfing in a hurricane, 162–4	Weisel, Thomas, 55
and surfing with the government, 172-6	Wells Fargo, 44, 51, 57, 60, 66, 71, 75,
and timing, 164–5	219–20, 248
and valuation, 189-93	Wessels, David, 225
waves of, 29, 160-2	whales, 68, 80-1
VIX, 88	Wharton Research Data Service (WRDS), 19
Vliet, Van, 242–3	Wharton School of Business, 19, 103, 107,
volatility, 7, 16, 41, 44, 77, 79–81, 88, 90, 99, 101,	123, 259
108, 120, 142, 149, 201, 205-6, 215-16,	WhatsApp, 193
224, 227, 230, 235, 242, 251, 255, 261	William & Mary Mason School of
Volcker, Paul, 50	Business, 19
Volcker Rule, 50, 124–5, 144	William Blair, 71, 74–5
	Wilshire Associates, 93-4, 223
Wachovia, 55, 59, 66	Winklevoss, Cameron, 166
Walker, Jay, 258	Winklevoss, Tyler, 166
Walker, Stephen Todd, 139	"Words with Friends," 164
Wall Street, 5-6, 8, 14-15, 17, 23-4, 26, 28, 31,	World Bank, 98
45-7, 49, 56, 58, 61, 67, 71-3, 76, 116-17,	World Gold Council, 149–52
127-8, 138-9, 141, 176, 210, 213, 224, 273	World War I, 29
wire houses, 46–7	World War II, 10, 29, 225
Wall Street Journal, 19, 37, 46, 74–5, 93, 171, 178	WRDS. See Wharton Research Data Service
Washington Mutual, 59, 69	
Wave Categorization chart, 27	Yahoo, 37
the Wave Chart, 37–8, 41, 182, 187, 256–7	Yale University, 107
"Wave Theory," 8, 11–12, 56, 89, 145, 147,	Yandex, 165
163, 184, 186, 208, 225, 277	Yelp, 165
Wave Theory for Alternative Investments:	young advisors, 43–4
Riding the Wave with Hedge Funds,	Yuan, Yu, 107, 123
Commodities, and Venture Capital	
(Walker), 1–21, 24, 28, 96, 99, 106, 108,	Zagat guides, 177
121, 129, 190, 193, 215, 223, 225, 239	Zarate, 219
waves, 1–21, 23–42, 56, 77, 83, 106, 116–22,	zero-sum game, 12
142, 145, 147, 152–4, 160–2, 167, 170, 174,	Zuckerberg, Mark, 137, 193
182, 185, 215, 217, 225–7, 236, 259, 262	Zynga, 164-5, 190, 192