BREAKTHROUGH STRATEGIES FOR PREDICTING ANY MARKET
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Breakthrough Strategies for Predicting Any Market

Charting Elliott Wave, Lucas, Fibonacci, Gann, and Time for Profit

Second Edition

Jeff Greenblatt

Wiley
To my wife, Jeanne, son Josh, and my parents, Henry and Janet. They’ve always been there through good times and bad. This book is also dedicated to the memory of Beatrice Heffron.
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It was indeed a privilege to write the foreword for the first edition of Breakthrough Strategies for Predicting Any Market and now an even greater privilege to update it for Jeff’s new book. As a long-term subscriber to his free bi-weekly Fibonacci Newsletter and his Fibonacci Forecaster updates on stocks, commodities, and foreign exchange. I believe these are compelling viewing for his wonderful display of charts and commentary in a format extremely beneficial for traders and investors.

I can say now I have been a practicing Technical Analyst since 1964 and in that time have experienced three major stock market crashes. There are always lessons to be learned and one has to be a step ahead of the crowd. It is much better to be able to use foresight rather than hindsight, which most economists are not able to do. I therefore feel well qualified to pass judgment on Jeff’s latest book.

As a complete novice in 1960 making my first stock market investments when the broker said the market was high, I was soon to find out that I had been buying at the top of a nine-year bull cycle.

In the wake of the 1961 credit squeeze in Australia, the stocks came tumbling down. I realized I had to find out more about markets so I enrolled in the pilot course of the Sydney Stock Exchange at Mosman Evening college only to learn after several years that P/E ratios, earnings, and dividend yields were meaningless if you didn’t get the timing right. Our group threw in five shillings each to a subscription to TRENDEX, a technical newsletter and studied Technical Analysis of Stock Trends by Edwards and Magee, which laid my foundations for the exciting career path I have enjoyed since 1964. I was the first Technical Analyst to be employed by an Australian stockbroker
and the course was set to later move into commodities for the gold top in 1980 and later foreign exchange for the Australian Dollar.

I believe my hands-on experience, including the three major stock market crashes, enables me to pass a sound judgment on the real value of Jeff’s methodology and his amazing contribution to Technical Analysis. I gave the first lectures for the Securities Institute course at the Sydney Stock Exchange and over the decades have contributed regular articles in newspapers, newsletters, and futures magazines. Since 1998 I’ve had a regular bi-monthly column in Your Trading Edge.

Without any knowledge of the global financial crisis, I pinpointed the 2007 to 2008 major top in the stock market and 2009 bottom using trend lines and pattern recognition, coupled with experience—the best teacher. I was also a founding member of the Australian Technical Analysts Association.

My mentors over the years included Ian Notley (Mosman Evening College), Dr. Harry D. Schultz, David Fuller, J. Welles Wilder, Dr. Mircea Dologa, Phyllis Kahn (who introduced me to W.D. Gann), and more recently Michael S. Jenkins who made me aware of the importance of timing the cycles and geometry in the markets. My own claim to fame was predicting the 1974 share crash and calling the bottom within 4 points. I was writing for the Sunday Telegraph Newspaper at the time and the lead article July 21, 1974 “Stand by for a Crash—Dawn tips a 30’s style share slump”. I would hasten to say that the market was setting itself up in October 14, 1973. No fancy indicators, but just good basic charts and pattern recognition.

When I started in the early 1960s there were only three textbooks, and now my bookshelves have run out of space. It is somewhat a daunting task when confronted by the incredible display of books and courses all centered on markets and making money to determine what book is right for you. I firmly believe that Jeff’s books fill the gap left by many technical trading systems and are not to be left on the bookshelf.

His new book is a remodel of the original where he has enhanced almost every chapter, added chapters on Square of Nine, price and time symmetry, Andrews, and psychology. It is written for the intermediate to advanced trader but leaving a lot of the MACD work in there. He prefers not to use lagging indicators anymore, and the idea of this book is to build a bridge for those who want to wean themselves from lagging indicators and learn to master markets from a pure pattern-recognition view. With the charts, this is a monster book of more than 400 pages.

He uses candlesticks, which he believes tell you more about market behavior than basic line charts. The importance of the 200-day simple moving
average and the 20/50 day used by the big money crowd which is a good place for price action to hold are both explained. The extremely important chapter on Fibonacci price projections leaves the academics and fundamental analysts behind. He discusses how to make high-probability price projections based on the natural tendencies of universal law. He looks at support and resistance levels as well as moving averages, and many times the 50- or 200-day moving averages will be within pennies of one of the Fibonacci retracement points.

Now on psychology—if your mind isn’t right, there is no methodology in the world that will work, and the chapter that focuses on the lessons learned by the author from different mentors in the field of psychology and mental toughness are priceless tools, not only in trading but in life.

History has shown us that people starting out in trading to get rich with no formal training think it is all very easy. They learn quickly that it’s not and it can be easier to lose money than make it.

Most of the material and charts in this book needs to be studied for hours upon hours. That it is the only way you are going to learn the true nature of how these financial markets really work. But once mastered, you will never look at a chart in the same way. You will have the potential to become very profitable; you will even do better. Potential means having the ability to do the right thing at the right time. There is a lot of noise out there, and your biggest enemy besides yourself will be the maddening voice of the crowd. You need to listen to them, yet ignore them at the same time and interpret what they really mean. Edwards and Magee said there are times to “board up the windows.”

When it comes to commodities, absolute fear is usually a top and in the stock market absolute fear is usually a bottom. When the experts tell you stocks are going to the moon, it is time to think about short positions, but you still have to wait for the appropriate signal. Our minds need to be trained to take trades intelligently in psychologically uncomfortable positions. The author’s choice of the best work on the psychology of trading is Trading in the Zone by Mark Douglas. The other is New Trading Dimensions by Bill Williams. Each one teaches you how to get into a “flow” state of mind in order to tune out all distractions, fears, and anxieties and to get into rhythm with your highest potential. This means getting rid of a fair degree of mental garbage. This chapter is one of the finest I have read on the psychological aspects of trading, with explanations of how to deal with some of the problems faced when pulling the trigger. To summarize, we need to know where we came from and where we are going. Trading
is never going to be easy, but it can be simple, and this chapter should mentally equip you to participate.

The final chapter ties together some of the highest probability setups so you can start using this wonderful methodology right away. This is where the author congratulates you if you are still with him because the book is not an easy read and is not supposed to be. The dozens of charts are meant to be studied over and over until you get it. To make money, you must develop from being an average trader and this book will take your knowledge of charts from mediocre to great. The whole point of this book is to demonstrate a different way of looking at charts. News events somehow manifest themselves at precisely the correct point in time on a price chart. Jeff reports that he can no longer look at a price chart without keeping track of the bars, and his goal is to take you to this level of market precision.

Everything you need on a technical basis has been covered and the new language will enable you to wait for better setups. By drawing your extension lines and keeping track of the bars, you will come to anticipate turns and not take action until the candles confirm you various price and time clusters. When they do—pull the trigger! You will learn to trust the chart and the methodology and have the courage of your convictions to stick with the trade. Over time you are going to have lots of fun! The author knows—all this happened to him.

The goal of this book is to give you a full and complete understanding of how financial markets work. Whether you are an Elliottician, moving average trend follower, volume studies practitioner, or believe in any discipline, you are only dealing with “what to do”. This book will teach you “when to do it.”

In short, you now have in your hands an incredible pattern-recognition system, perhaps the best on the planet! Mastering financial markets takes quite a bit of time and energy during and after trading hours. Jeff studies the cycles on the indexes every single day to know what is going on. As repeatedly stressed in this work, you will need to study these charts and your own charts constantly in order to find the right setups. It takes dedication and work, but if you put in the effort, you will find that this book will make you a better and more profitable trader, because you will be fluent in the language of the market. On my previous prediction, there is little doubt that Jeff’s achievements will most surely take him to the Hall of Fame as one of the true Market Masters of the twenty-first century. This volume deserves a place on the bookshelves of every trader and investors.

Dawn Bolton-Smith
The inspiration for the first edition of this book came about in 2005 and 2006. As you remember it was a bull market nobody anticipated and lots of people attempted to get short and you can’t really blame them. Many of them got their real initiation into financial markets after the Internet bubble popped. All they really knew was being a bear.

Many of the people who embraced methodologies like Elliott and Fibonacci were very bearish. It worked for a couple of years and then it stopped working. Many had no idea why. Truth be told, one of the reasons seasoned traders are able to capitalize on opportunities is because they’ve seen prior bull and bear markets and know how to react at specific times in history. A trader won’t be really seasoned until they’ve been through at least two complete bull and bear cycles. Traders tend to be influenced by what they’ve experienced. Many traders who were around in the middle of the last decade were influenced by the Internet bubble, where everyone made money but few kept it. Others were influenced by the bear and expected it to continue. Once it turned around in 2003, they were ill equipped to deal with a new bull market. The psychology of bear markets suggests traders, policy makers, and the mass crowd psychology overall will be scarred by the experience.

Compounding the problem were traders at the intermediate level who still used lagging indicators like stochastic and MACD. The problem was that the MACD divergences persisted for a long time. As you will see, many of them extended for weeks and even months. In those days many people shorted those divergences and lost a lot of money.
In the first edition, I addressed the issue by introducing the time element in technical analysis. For some people—there was an element of the trading community that was well versed in the time element of technical analysis—this was nothing new. However, there was and still is a bigger segment of the trading community that doesn’t embrace the time element of technical analysis. This is known as the random walk crowd who believes that one must be invested at all times in order to capture the big moves in the markets. If there are 10 really big days a year, they claim it’s impossible to time them so one must be in the market at all times. Random walk people believe **everything** that happens in the market is random.

That’s not true because if nothing else, if you read the first edition you would have learned how time windows work and been able to recognize the October 2007 top which came in at 262 weeks. For months leading up to that window I told whoever would listen that an important pivot was coming up that autumn. I said it could have the potential to be the most important market turn of the decade. I was wrong. It turned out to be the most important pivot of our *generation*. The 2007 turn was the lead-in to the financial crisis and the timing of it was anything but random. In fact the two most important events of the crisis—the Lehman Brothers bankruptcy and TARP vote—both came 233 trading days off the respective tops in the Dow and NASDAQ. I’ve never seen anything like it.

Unfortunately, even one cycle later there were still those who didn’t learn the lesson from the bull years of 2002 to 2007. As late as 2011, Euro bears (at least in the equity side) were looking for the European crisis to replicate the Lehman disaster of 2008. It never happened and here I’ll show you why in terms of the pattern calculations and the psychology. If you haven’t been through two bull and bear markets, I hope you’ll gain valuable information from my experience.

Getting back to 2007, if you learned how to recognize an important turn and got out of the market in time, the first edition served you well. However, since the first edition came out I noticed that not all turns materialized on a Fibonacci or golden spiral time window. I wanted to know why. My study and research led me to Gann, who was probably the greatest stock market mind of the first half of the twentieth century. The fact that Gann existed and people still think markets act randomly is a dynamic I don’t understand. But Gann didn’t make life easy on himself or anyone else.

Imagine you purchased his expensive course back in the day. What he did was essentially come to your house and drop a 5,000-piece jigsaw puzzle on your dining room table and left leaving you to figure it out. He
wished you to do your due diligence. It would take people years to figure out what he was talking about if they ever did. Through Gann’s work, I figured out how to make our time windows more effective. That’s the biggest and most important breakthrough in this new edition. I’ve presented it in a way that shouldn’t take you years to figure out. I’ve boiled down the most important concepts that will get you up and running in a relatively short period of time. But it depends on you. You’ll still have to study the charts. But at least you’ll know what to look for.

Most of the chapters have been remodeled and enhanced. I’ve added chapters on Gann and Andrews, which I believe is an excellent GPS system to navigate tough-to-follow patterns. We’ve covered the financial crisis so you can understand what happened. It may just help you spot the next one if it ever happens. There are strategies here to capitalize on the numerous opportunities you will be afforded by financial markets. I’ve also greatly enhanced our discussion on market psychology and sentiment because I believe it’s more important than the fundamentals.

The idea of this book is to be true to the original vision and brand of the first edition but build a bridge to the more advanced concepts that open you up to greater opportunity. While each chapter builds on the prior, feel free to skip ahead. If you are an intermediate-level trader and you have only worked with a MACD, I urge you to use the more advanced concepts in the Gann chapters side by side and see the difference for yourself. If you are more curious about the Gann timing principles, feel free to skip ahead. The idea is to understand the bigger picture of the market and then scale down to your individual trading opportunities.

Markets are as challenging now as they’ve ever been. Our vision here is to give you a toolbox big enough that you have one more tool than the market has problems.

**Audience**

Traders lose money for many reasons. One of the big ones is they don’t recognize important turns. Not even huge hedge funds are immune. Institutions and retail traders give back huge gains. To the retail trader, it could be in the thousands while the hedge fund gives back hundreds of millions. Every market has at least one or two important turns in a year and this book greatly closes the gap so that shouldn’t happen. To those of you who’ve wondered about the mysteries of Gann, it shouldn’t take years to apply—your learning
curve will be shortened by months or even years. Those who really want to can understand the link between how the media portrays market sentiment and how it applies to where we are in the current trend. Bull markets climb a wall of worry but slide down a slope of hope. Everyone knows that but you’ll learn how to interpret headlines to understand where the market is in its progression. Ultimately, those of you who want to understand how the bigger picture (the macro) works with your opportunities (the micro) will find cutting-edge ideas.

### What’s New to This Edition

We’ve included chapters on Gann, Andrews, median channels, and market sentiment/psychology. We’ve found Andrews’ work to be an excellent GPS system in order to understand how trends evolve. There are instances where it’s hard to even understand what the trend might be without putting a median channel on the price chart. We’ve included Gann range and time square as Gann himself considered this to be his “most important discovery.” We’ve found it greatly closes the gap in our understanding of market timing since the first edition. It won’t take years to learn and you’ll find yourself applying these principles in a relatively short period of time.

Understanding a price chart is tough enough, but some make it more difficult as they don’t consider the price action to be a representation of human emotion. We’ll examine market psychology so you can better marry the current sequence of the pattern to the headlines to understand where we are in the near term as well as the long term. Greater market timing skills will open up a world of opportunity as well as save you money by allowing you to better recognize important turns.

### Overview of the Web Site Contents

If you’re interested in learning more about some of the market movements discussed in the book, you can go to the book’s companion web site at [www.wiley.com/go/greenblatt2e](http://www.wiley.com/go/greenblatt2e) (password wiley13) and download PDF versions of six of my *Short Term Update* newsletters.

The newsletters cover the various financial markets using the methodology in this book. If there is one constant in all financial markets, it is change. However, markets always work the same way. They are like snowflakes, very similar but never exactly alike. You’ll get a chance to look over my
shoulder and see how we analyze markets as they evolve. The newsletters we’ve picked show how we identify market turns as they evolve. You’ll see how a news event like the fiscal cliff negotiations clustered with the Gann calculations to end the late 2012 correction. You’ll also see how the world may have been expecting a rally based on the Osama Bin Laden news yet the markets had something else in mind. The turn in May 2011 was so important that most everything that was going up turned down and what was going down (U.S. Dollar) reversed into a major rally. News events are one thing, but markets won’t turn for real unless the underlying structure of financial markets has price and time lined up.

You can also go to www.lucaswaveinternational.com for more information on Lucas Wave International.
Nature abhors a vacuum. Anything worthwhile happens only due to the efforts of others. In my case, I would like to thank the following people for their efforts along the way.

First of all, a special mention goes to Evan Greenberg. Several years back, as a caller I challenged him on 1510 KFNN in Phoenix, Arizona. As opposed to getting mad, he invited me on his show for a full hour to talk about technical analysis. He’s a great guy. That day, KFNN host Sinclair Noe gave me some of the best advice I’ve ever received in my life. He told me if there was something I wanted to do, I should just start doing it. I started my Fibonacci Forecaster newsletter that day. Sinclair has had me on his show many times since then and deserves credit for giving new blood a chance.

In the early days people like Gary Kaltbaum, Mark Leibovit, and Sean Balog offered encouragement that kept me going. Later on it was Yelnick who included me in his excellent blog. The fact that he thought enough of my work to compare it to the better-known Elliotticians in the field helped get it to a broader and international audience. At one point, the timing work you are about to learn as a market leading indicator foretold a time window for an important rally that could end on a specific date. When the market did turn on that date my email box was flooded with inquiries from all over the world, mostly the United States and Australia. I had no idea why until I found out it was Yelnick putting out the good word. You can still find him at www.Yelnick.tyepad.com.

One of the people who responded that day was Dawn Bolton-Smith from Your Trading Edge magazine in Australia. I never heard of this magazine but readers started emailing me to say that Dawn was saying nice things
about my work in her column. I soon found out that Your Trading Edge was a cutting-edge trading magazine on the other side of the world. Dawn has one of the greatest stock market minds in the world and she is an incredible person. I'd also like to thank Aimee Sargent for giving me my first writing assignment at YTE and special mention to Chelsea Reid for following through after Aimee left the magazine to pursue other career opportunities. But it was always Dawn who kept it together.

I'd also like to thank Dickson Yap at The Trader's Journal magazine, based in Singapore, for inviting me to write for his magazine and highlighting my work as their lead article in November 2006. Being in that magazine helped give my work an added flair.

Sometimes one has to become recognized as an expert from afar in order to get any recognition at home. After my initial exposure in Australia, it was Futures magazine that showed interest in my Lucas work. A special thanks goes out to Dan Collins and Ginger Szala for having enough confidence to publish my work in the September 2006 issue and I've working with them ever since.

My work is only as good as the information and data. Our early charts come courtesy of Prophet charts. Special thanks to Tim Knight, who was a great early help. He also has an excellent blog you should check out at www.slopeofhope.com.

We were also helped by Julie Craig at Esignal for the charts in the Forex chapter. Special thanks to Marty Mchale for helping on the original PowerPoint presentations for New Tactics In Technical Analysis as well as encouragement from Dru Johnson who kept me on track through the early process.

Since then I’ve developed friendships with Genesis Financial Technologies and Glen Larson in particular. He has stuck by me since the original edition came out and quite frankly this book likely doesn’t come about without his continuing support. I would also like to thank Danielle Bourbeau and Kevin Riordan now of Capital Trading Group for their support.

Later on, I was introduced by Ross Beck to Market Analyst from Australia. I believe they have the best Gann software in the world. I always appreciate the support of Mathew Verdouw, Matthew Humphries, and Darren Hawkins.

Of course, a special thank you goes out to Jody Costa for adopting the first edition of this book at Marketplace Books. John Probst, John Boyer, and Chris Myers were instrumental in making the first edition not only a reality but a success as well.
This new edition never would have materialized without my clients and readers and I believe I learn as much from them as they do from me.

The biggest thanks of all goes to my family. My father has been supportive all these years. My mother was always encouraging; unfortunately, she passed away years ago. My mother-in-law, Beatrice Heffron, always offered kind words of encouragement. Bea was living in a nursing home and her health took a turn for the worse the same week I signed the original contract. The nurses at the home told us Bea stopped eating and if that didn’t change she wouldn’t last another week. Immediately we went to the home and shared the news. She lit up and started eating again, which amazed those taking care of her. She was very happy to learn this project would become a reality and committed to hanging on until it was released. She didn’t quite make it but hung around long enough to see my name included in the distinguished roster of speakers at the 2007 Traders Library Hall of Fame Awards in Washington, DC. My wife, Jeanne, and my son, Josh, have gone beyond the call of duty, and my wife truly is my better half.

I’d also like to thank Kevin Commins and Meg Freeborn at Wiley for making me feel comfortable as well making this project happen at my new publishing home at Wiley.

I’m very grateful for the numerous miracles in my life. One of which is this new edition which I believe is really God’s work. God works in mysterious ways and He provided this opportunity at Wiley. Any success that comes from this endeavor is truly from the grace of God and the Holy Spirit.
Welcome to twenty-first century technical analysis! In this work we are going to shatter myths, gore sacred cows, and finally build a better mousetrap. For the past several hundred years, technicians have relied heavily on price and volume studies as the most important factors on a price chart. Don’t get me wrong, these are very important. However they do not give us a complete picture. Time studies are the least understood, yet are a critically important element in technical analysis. For this new edition we are going to include some of the work of W.D. Gann and his most important discovery. So let me say that, while we are in twenty-first century technical analysis, the roots lie in work done 80 to 100 years ago that was ignored by the majority of the trading community. Even today on the three most important media outlets that give us wall-to-wall coverage of markets, the time element is still ignored.

The first edition of this book was released several months before this pattern completed. As early as April 2007 we had been telling our regular readers at the time that a very important pivot was coming in October, as seen in Figure 1.1. The essence of the book was to teach people how to recognize patterns such as this. Had anyone recognized and understood the significance of this market turn they could have taken appropriate action to protect themselves. We revisit this Dow episode later in the book as well because I told
people the turn coming in October 2007 could be the most important in that entire decade. I was only partially right. The peak of 2007 turned out to be the most important turn in our generation. It ended a five-year bull market, setting the table for the worst financial crisis since the Great Depression. The timing principles in this book will teach you how to recognize events such as these. One of the most historic was the eye of the storm created by that 262-week high. As we see, the Dow topped on October 11 and 12 in 2007. Exactly 233 trading days later in Figure 1.2, was the Lehman Brothers bankruptcy,
which for all practical purposes was the initial acceleration point to the 2008 crash. As it turned out, the NDX/NASDAQ topped out on October 31, 2007, roughly three weeks later.

Roughly three weeks after that was the TARP vote in Figure 1.3, which was 233 trading days off the NASDAQ top. It may have been the first time in history that a crash materialized at exactly 233 days off one peak and went into overdrive 233 days off the other peak. If this is really the case it’s because of the unique properties of the 2007 top. Most people don’t know this, but this is the kind of symmetry we are going to teach you how to recognize, along with the opportunities they represent. Also they will help you recognize when an event like this is not materializing. This information was not only valuable to the trading and investing community but the average person who saw his 401(k) decimated as well. If this doesn’t prove the validity of precise market timing windows, nothing ever will.

Traders comprehend targets based on price and volume very well. However most people have very little idea of the real reason why a trend changes. Do you ever wonder why a chart will hit a certain price target and linger for days until finally one day it drops? Why did it drop on this day as opposed to that day? This area has always been one of the biggest problems for traders. The first edition made a serious attempt to close that gap. This edition takes it a step further. We start here with the symmetry from the greatest crisis in our lifetime and find the market left clues. Hopefully you will continue with an open mind so you can have a greater understanding of why price action

![NDX Bear Market](image)

**FIGURE 1.3** TARP Event
behaves the way it does. It is a wonderful world of possibilities. But there has to be a basis for understanding patterns.

There are different methods of technical analysis. Dating back to the 1920s and 1930s, Richard W. Schabacker wrote several books that were based on Dow theory. He hypothesized successfully that certain patterns that showed up in the major averages were also relevant to individual stocks as well. His brother-in-law Robert D. Edwards continued his work. Many in our generation are familiar with the technical work of Edwards and his partner John Magee (Magee ix-xv). Together, they are considered the fathers of modern technical analysis. As we know, technical analysis is a snapshot of market participants’ collective behavior. Since we are dealing with human emotions, these patterns of collective behavior are repeated over and over. They can be recognized and then utilized to anticipate future moves in the markets. These patterns can be further broken down into naturally recurring sets of waves and calculations.

The basic structure of financial markets lies in a catalogue of repeatable patterns uncovered by Ralph Nelson Elliott and refined over the years by other well-known Elliotticians including Robert Prechter Jr. The Wave Principle represents a good pattern-recognition system. These waves are like snowflakes. No two patterns are ever alike, but they all have repeatable tendencies. Inside these waves are universal calculations that are measured in terms of both price and time. These measurements are driven by Fibonacci relationships. Much of the research on the time element is derived from the work of W. D. Gann, who should be considered the founding father of modern time studies. From Gann, modern Fibonacci analysts have done an excellent job of simplifying the methodology so traders can practically use it as an everyday discipline. When you combine Elliott and Gann, you have the capability of taking subjectivity out of Elliott, which is the method’s main criticism. But they are rarely used together.

The Elliott methodology relies heavily on the Fibonacci relationships to the point where one really can’t use one without the other. Since the Wave Principle relies on Fibonacci calculations it would make sense that those who use Fibonacci retracements would recognize patterns in terms of Elliott Waves. The first edition of this book incorporated the time principle into the Fibonacci/Elliott ways of thinking as well as traditional technical analysis. This edition introduces the concept of price and time squaring, Gann’s most important discovery. In this edition we are leaving much of the first edition’s Elliott/Fibonacci work here as many of you are more familiar with it, but taking it one step further and introducing enough Gann you can use now
and it won’t take years to figure out. The first edition reintroduced the Lucas
series of mathematics. French mathematician Edouard Lucas (1842–1891)
discovered this series, which is a derivative of the Fibonacci sequence. Lucas
was the guy who gave the Fibonacci sequence its name. It is mentioned
briefly in other books. It is here where this series is presented in great de-
tail. The author is certainly not the first to present Lucas to the financial
community. However, it has a greater influence on many financial charts in
all degrees of trend than many realize, as we will show you, and has been
greatly misunderstood and greatly understated. Lucas does not supersede
Fibonacci, it complements it. According to the research presented here, you
will see how often it does. The purpose of using the time dimension is to
gain a very important tool in the pattern-recognition game.

A pilot wouldn’t think to ever take off in a plane that was not equipped
with instruments that could fly or land it in bad visibility. As challenging
as financial markets are, using technical analysis as a pattern-recognition
system without the time dimension is like attempting to land a plane in zero
visibility.

Before going on instruments we need to navigate in good weather. Basic
navigation of financial markets begins with an understanding of the Wave
Principle as one underlying structure of all financial markets. The Wave
Principle gives the trader a good start at pattern recognition. Those of you
trained in the Edwards and Magee school of technical analysis can compare
and contrast the two methodologies. This book uses the Wave Principle only
as a guide because it is fairly complex and not totally reliable in real time.
It’s a guide because of the subjectivity of the waves. What we’ll cover here in
contrast to what is presented in pure orthodox Elliott books is the ability to
use the Wave Principle as a GPS. We don’t want to totally rely on the waves
as iron trading rules for entry and exit.

When we look at the waves we can have an idea of where we are in
a trend. We can also have an idea if we are in the main trend or in a move
that technically corrects that trend. Sometimes a correction is so large in
relation to the main trend that we really don’t know if the larger trend has
changed. This is one of the black holes in the Wave Principle that this book
intends to clear up.

There are two basic patterns of waves. The first are known as impulse
waves, which is the prevailing larger-degree trend. The other is known as
corrective waves, which move counter to the main trend. Each has their
own distinctive set of characteristics. In this chapter I will only cover the
basics as a review of materials you may have read elsewhere. Later on, I will
show you how to recognize an impulse or corrective wave by exclusively understanding the number sequences in all of these waves.

**Impulse Waves**

Impulse waves have their own unique characteristics. The larger prevailing trend is considered to be an impulse wave and you can recognize them as they move in a five-wave sequence. They can also move in a 9- or 13-wave pattern. There are only three iron laws of impulse waves according to Prechter (30).

1. Wave three is never the shortest wave.
2. Wave two never retraces more than 99 percent of wave one.
3. Wave four does not overlap the territory of wave one.

Let’s clear up some of the confusion surrounding these rules. From my experience in dealing with the Elliott community over the past few years, some think the third wave is always the largest wave. This is simply not the case. Generally speaking, the tendency is for wave three to be the largest wave, but the rule is it can’t be the shortest wave. If you are counting waves and the middle wave is the smallest, something else is going on. That particular wave might be an extension of the first wave, but it isn’t a third wave.

The other controversy surrounds fourth waves. According to some in the Elliott community, they do not allow for any overlap of the first and fourth waves, but I’ve seen many instances of where the fourth wave touches, grazes, or slightly overlaps wave one. I think you need to apply common sense to the situation. If you have a fourth wave that makes an obvious violation into first-wave territory, it isn’t a fourth wave. If you’ve had a first wave, a retracement second wave, a third that makes a decent advance, and then you have a pullback that grazes first-wave territory before turning up, I think you can make a case for it being a fourth wave.

Another characteristic of impulse waves is the Rule of Alternation. This is not an iron law but rather a guideline. The Rule of Alternation suggests that if the second wave retracement takes the form of a sharp, the fourth wave is likely to be a flat correction. Other ways this rule manifests itself is when the first wave is the largest wave, the fifth wave will be the smallest. In a larger move, if one set of five waves has the third wave as the extension, the next round will either have the first or fifth wave as the extended wave (Prechter 61).