

# The Alpha Engine: Designing an Automated Trading Algorithm

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## Abstract

We introduce a new approach to algorithmic investment management that yields profitable automated trading strategies. This trading model design is the result of a path of investigation that was chosen nearly three decades ago. Back then, a paradigm change was proposed for the way time is defined in financial markets, based on intrinsic events. This definition lead to the uncovering of a large set of scaling laws. An additional guiding principle was found by embedding the trading model construction in an agent-base framework, inspired by the study of complex systems. This new approach to designing automated trading algorithms is a parsimonious method for building a new type of investment strategy that not only generates profits, but also provides liquidity to financial markets and does not have a priori restrictions on the amount of assets that are managed.

## 1 Introduction

The asset management industry is one of the largest industries in modern society. Its relevance is documented by the astonishing amount of assets that are managed. It is estimated that globally there are 64 trillion USD under management [6]. This is nearly as big as the world product of 77 trillion USD [20].

### 1.1 Asset Management

Asset managers use a mix of analytic methods to manage their funds. They combine different approaches from fundamental to technical analysis. The time frames range from intraday, to days and weeks, and even months. Technical analysis, a phenomenological approach, is utilized widely as a toolkit to build trading strategies.

# The Alpha Engine Designing An Automated Trading Algorithm

**L Cohen**



## **The Alpha Engine Designing An Automated Trading Algorithm:**

This book delves into The Alpha Engine Designing An Automated Trading Algorithm. The Alpha Engine Designing An Automated Trading Algorithm is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into The Alpha Engine Designing An Automated Trading Algorithm, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to The Alpha Engine Designing An Automated Trading Algorithm
    - Chapter 2: Essential Elements of The Alpha Engine Designing An Automated Trading Algorithm
    - Chapter 3: The Alpha Engine Designing An Automated Trading Algorithm in Everyday Life
    - Chapter 4: The Alpha Engine Designing An Automated Trading Algorithm in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of The Alpha Engine Designing An Automated Trading Algorithm. The first chapter will explore what The Alpha Engine Designing An Automated Trading Algorithm is, why The Alpha Engine Designing An Automated Trading Algorithm is vital, and how to effectively learn about The Alpha Engine Designing An Automated Trading Algorithm.
  3. In chapter 2, this book will delve into the foundational concepts of The Alpha Engine Designing An Automated Trading Algorithm. The second chapter will elucidate the essential principles that must be understood to grasp The Alpha Engine Designing An Automated Trading Algorithm in its entirety.
  4. In chapter 3, this book will examine the practical applications of The Alpha Engine Designing An Automated Trading Algorithm in daily life. The third chapter will showcase real-world examples of how The Alpha Engine Designing An Automated Trading Algorithm can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of The Alpha Engine Designing An Automated Trading Algorithm in specific contexts. This chapter will explore how The Alpha Engine Designing An Automated Trading Algorithm is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about The Alpha Engine Designing An Automated Trading Algorithm. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of The Alpha Engine Designing An Automated Trading Algorithm.

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