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Programming

Creating Automated Trading Systems in MQL for MetaTrader 4

Andrew R. Young

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and fully featured expert advisors with minimal effort Whether you re a new trader with limited programming experience or an experienced programmer who has worked in other languages Expert Advisor Programming for MetaTrader 4 is the easiest way to get up and running in MQL4 **Expert Advisor Programming** Gerard Desjardins,Andrew R. Young,2009-12 Finally the first comprehensive guide to MQL programming is here Expert Advisor Programming guides you through the process of developing robust automated forex trading systems for the popular MetaTrader 4 platform In this book the author draws on several years of experience coding hundreds of expert advisors for retail traders worldwide You ll learn how to program these common trading tasks and much more Place market stop and limit orders Accurately calculate stop loss and take profit prices Calculate lot size based on risk Add flexible trailing stops to your orders Count modify and close multiple orders at once Verify trading conditions using indicators and price data Create flexible and reusable source code functions Add advanced features such as timers email alerts and Martingale lot sizing Avoid common trading errors and easily troubleshoot your programs Adjustments for fractional pip brokers and FIFO Plus learn how to create your own custom indicators and scripts Whether you re a beginner or an experienced programmer Expert Advisor Programming can help you realize your automated trading ideas in the shortest amount of time This book features dozens of code examples with detailed explanations fully functioning example programs and reusable functions that you can use in your own expert advisors

Expert Advisor Programming for MetaTrader 5, Second Edition Andrew R. Young,2018-03-15 The first guide to programming in MQL5 is here Expert Advisor Programming for MetaTrader 5 is a practical guide to creating automated trading strategies in the MQL5 language Take advantage of MetaTrader 5 s new features and take your trading to the next level You ll learn how to program expert advisors quickly and easily using a ready made framework created by an experienced MQL programmer BUILDING AUTOMATED TRADING STRATEGIES George Protonotarios,2018-09-21 This eBook includes general information and educational resources for explaining the modern use of automated trading plus some practical information and advice on how to create a proprietary automated trading system The optimization of a trading strategy through sophisticated backtesting and walk through steps is maybe the most difficult part of strategy building This eBook contains information on how to successfully backtest and optimize automated trading strategies **Quantum Finance** Raymond S. T. Lee,2019-11-15 With the exponential growth of program trading in the global financial industry quantum finance and its underlying technologies have become one of the hottest topics in the fintech community Numerous financial institutions and fund houses around the world require computer professionals with a basic understanding of quantum finance to develop intelligent financial systems This book presents a selection of the author s past 15 years R D work and practical implementation of the Quantum Finance Forecast System which integrates quantum field theory and related AI technologies to design and develop intelligent global financial forecast and quantum trading systems The book consists of two parts Part I discusses the basic concepts and theories of quantum finance and related AI technologies

including quantum field theory quantum price fields quantum price level modelling and quantum entanglement to predict major financial events Part II then examines the current ongoing R D projects on the application of quantum finance technologies in intelligent real time financial prediction and quantum trading systems This book is both a textbook for undergraduate masters level quantum finance AI and fintech courses and a valuable resource for researchers and data scientists working in the field of quantum finance and intelligent financial systems It is also of interest to professional traders quants independent investors who would like to grasp the basic concepts and theory of quantum finance and more importantly how to adopt this fascinating technology to implement intelligent financial forecast and quantum trading systems For system implementation the interactive quantum finance programming labs listed on the Quantum Finance Forecast Centre official site QFFC org enable readers to learn how to use quantum finance technologies presented in the book

Trading online For Dummies Andrea Fiorini,2024-03-18T00:00:00+01:00 Quali sono gli strumenti di cui occorre dotarsi per poter operare sui mercati finanziari Quali sono gli aspetti che si devono considerare prima di aprire un conto con un broker online Che tipo di strategie operative si possono utilizzare Quali sono gli ordini che si possono inserire all interno delle piattaforme di trading Quali sono gli errori che non si devono commettere Dove si possono reperire delle informazioni utili Se volete una risposta a queste domande questo il libro che fa per voi Per ottenere dei guadagni interessanti con il trading online necessario acquisire le giuste competenze Una guida pratica che descrive quali sono i fattori che vanno considerati per poter operare sui diversi mercati finanziari individuando opportunit e valutando i rischi ESSENTIAL FOREX TRADING SECRETS GEORGE PROTONOTARIOS,2018-08-08 Learn how to trade Forex currencies like a professional The tutorial includes charting technical analysis trade setups trading orders and money management tips For semi advanced and advanced Foreign Exchange traders **Pattern Recognition and Classification in Time Series Data** Volna, Eva,Kotyrba, Martin,Janosek, Michal,2016-07-22 Patterns can be any number of items that occur repeatedly whether in the behaviour of animals humans traffic or even in the appearance of a design As technologies continue to advance recognizing mimicking and responding to all types of patterns becomes more precise Pattern Recognition and Classification in Time Series Data focuses on intelligent methods and techniques for recognizing and storing dynamic patterns Emphasizing topics related to artificial intelligence pattern management and algorithm development in addition to practical examples and applications this publication is an essential reference source for graduate students researchers and professionals in a variety of computer related disciplines Expert Advisor Programming for Beginners Wayne Walker,2017-04-21 You will discover step by step along with clear visuals on how to profit with MT4 programming Automated trading is often shrouded in mystery along with many misconceptions about who it can benefit We peal away the layers of this misunderstood world in the book The book covers the following topics and much more Gives an overview of trading the financial markets Understanding of how quant trading works Understanding of basic of the programming language declare variables Understanding of the script

Make a script Create an indicator Make building blocks of different functions Check for trade trade open rule Check for trade close rule Check for breakeven Check for trailing stop How to design a trading system from a to z   *Expert Advisor Programming for MetaTrader 4* Andrew R. Young,2025-08   Expert Advisor Programming for MetaTrader 5 Andrew R. Young,2025-08   **Learn Automated Forex Trading in a Day** Iducate Technologies,2013-06-19 Are you fed up with staring at forex stock charts graphs for long periods of time with mechanical trading rules that you know can be implemented by a robot In this short and concise book written for simplicity you will learn the basics of algorithmic trading and how to create your own automated traders You might other wise know them as trading robots or Expert Advisors EAs We will provide you with the fundamental building blocks to get you up and running in creating your own Expert Advisors in no time We cover the following topics Introduction to Forex Expert Advisor Programming Installing MetaTrader Our First Expert Advisor Using If Else in our Expert Advisor Detecting Moving Averages Crossover Using the Crossover to Execute Orders Closing Orders Testing your Expert Advisor Using other Expert Advisors   *AI Expert* ,1990   *Expert Advisor Programming for Beginners* Wayne Walker,2017-04-21 You will discover step by step along with clear visuals on how to profit with MT4 programming Automated trading is often shrouded in mystery along with many misconceptions about who it can benefit We peal away the layers of this misunderstood world in the book The book covers the following topics and much more Gives an overview of trading the financial markets Understanding of how quant trading works Understanding of basic of the programming language declare variables Understanding of the script Make a script Create an indicator Make building blocks of different functions Check for trade trade open rule Check for trade close rule Check for breakeven Check for trailing stop How to design a trading system from a to z   **Full Stack Expert Advisor Programming For Meta Trader 5** Raphael Okonkwo,2022-08-22 Simple is better than complex This book lets you know all it takes to build a robust algorithm in the most simplistic and easy to learn format using the Meta Quotes Language 5 MQL5 While it is possible to build an advanced algorithm with MQL4 MQL5 comes with new generation concepts which give an edge to programmers that code in MQL5 however the real winners may be those that have mastered the two languages If you have read the MQL4 version of this book writing code in MQL5 comes with no stress Any worthwhile system is designed with the intent to yield better results Raphael gives details on how an ideal Expert advisor can be developed to have a dynamic and stable capacity in the foreign exchange market This book is open to both novices and professionals The principles of the Mql5 language the ideal model for a trading system sophisticated trading algorithms and operations the use of price data technical analytics for market analysis and many other unique aspects are covered in this book After studying this book you will be able to do the following Learn how to program fully automated and Semi automated algorithms for trade enhancement and assistance Learn how to code the premium serial bearish and bullish candle patterns and their optimization Acquire knowledge on how to recover from trade operations when predictive analysis fails by using the order reverse approach Price action is known as the king of trades

Learn how to use price data and candle stick patterns to confirm market entry Develop your coding skills by learning how to manage numerous trade orders modify market and pending orders delete pending orders close market orders handle errors and other sophisticated trading procedures Learn how to safeguard your equity using the risk management strategy As your account size increases this idea commits fewer resources to trade and more resources if the opposite is true Gain more knowledge about the break even stop strategy and trailing stop algorithm to reduce losses and maximize profits Create forecasting market analyses and signals utilizing the most widely used indicators including the moving average average true range relative strength index Bollinger band stochastic indicator moving average convergence and divergence indicator and many others Use a martingale and dynamic lot sizes for trade recovery Set take profit and stop loss trade limits using the average true range Employ the Fibonacci object upper and lower trend lines as well as horizontal and vertical lines to analyse support and resistance patterns Utilize the multi timeframe algorithmic technique on the M1 M5 M30 H1 and D1 to compare and create precise signals Create algorithms that start trading at predetermined times when the market is stable and at a predetermined spread range Create trade signals using one or more indicators to confirm and filter signals Create various expert advisors such as market order expert advisors buy stop sell stop pending order expert advisors and buy limit sell limit pending order expert advisors Use the Strategy Tester and History Centre to assess the robustness of your Trading System You will also be able to see how important it is to plan design and use your ingenuity to create a solid system A better experience is always provided by practical knowledge **FROM ZERO TO MASTERY IN MQL5** 闫瑞江吉,2024-03-19 Crafted for traders and programming enthusiasts alike this ultimate guide provides a comprehensive learning path for MQL5 aimed at helping readers master the core functionalities and programming skills of the MetaTrader 5 MT5 platform Whether you re a novice trader just starting out an experienced trader looking to transition from MT4 to MT5 or a professional seeking to enhance your automated trading system development skills this book will be your ideal choice The book meticulously covers the fundamentals of the MQL5 programming language delving progressively into complex trading strategies and Expert Advisor EA development Readers will learn how to write automated trading scripts analyze market data and implement advanced trading strategies Rich in content and combining theoretical learning with practical exercises the book aims to assist readers in achieving effective quantitative trading on the MT5 platform Target readers include Traders and investors Seeking to enhance efficiency and performance through automated trading Programming enthusiasts Interested in programming financial market trading and applying programming skills to real world trading Financial analysts Utilizing programming techniques for market data analysis and trading strategy formulation Students and educators Studying or teaching in finance computer science or related fields and interested in trading technology This book will serve as your authoritative guide to explore the world of MetaTrader 5 helping you take a solid step forward in the field of quantitative trading A Guide to Creating A Successful Algorithmic Trading Strategy Perry J. Kaufman,2016-01-14 Turn insight into

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