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The Mathematics of Chip-firing is a solid introduction and overview of the growing field of chip-firing. It offers an appreciation for the richness and diversity of the subject. Chip-firing refers to a discrete dynamical system — a commodity is exchanged between sites of a network according to very simple local rules. Although governed by local rules, the long-term global behavior of the system reveals fascinating properties. The Fundamental properties of chip-firing are covered from a variety of perspectives. This gives the reader both a broad context of the field and concrete entry points from different backgrounds. Broken into two sections, the first examines the fundamentals of chip-firing, while the second half presents more general frameworks for chip-firing. Instructors and students will discover that this book provides a comprehensive background to approaching original sources. Features: Provides a broad introduction for researchers interested in the subject of chip-firing The text includes historical and current perspectives Exercises included at the end of each chapter About the Author: Caroline J. Klivans received a BA degree in mathematics from Cornell University and a PhD in applied mathematics from MIT. Currently, she is an Associate Professor in the Division of Applied Mathematics at Brown University. She is also an Associate Director of ICERM (Institute for Computational and Experimental Research in Mathematics). Before coming to Brown she held positions at MSRI, Cornell and the

University of Chicago. Her research is in algebraic, geometric and topological combinatorics. Focus on the financial concepts, skills, and technological applications that are critical for you in today's workplace with Ehrhardt/Brigham's CORPORATE FINANCE: A FOCUSED APPROACH 6E. With its relevant and engaging presentation and numerous examples, you will learn the latest financial developments as you also learn how to maximize a firm's value in today's changing business environment. You will master the features and functions of spreadsheets by using chapter Excel Tool Kits, Build a Model problems, and Mini Cases that encourage "what-if" analysis on a real-time basis. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"A hunger for honesty and a charged lyricism have always made Bill Ehrhart's poetry remarkably his own. Though he's best known for his Vietnam War poems with their sharp moral outcry and humane insight, Thank You for Your Service: Collected Poems includes many lovely poems not about Vietnam. This book deserves serious recognition."—John Balaban, poet-in-residence, North Carolina State University, author of Remembering Heaven's Face "Bill Ehrhart is the finest combat veteran poet to come out of the Vietnam War. But his poetry transcends his war experience and eloquently reveals the healing powers of family and love. In all of his written work, Bill is brutally honest in the revelation of his own and our society's flaws and virtues. He is the master of sharing the most complex truths in seemingly simple language. He is a poet who will represent the important truths of our time for generations to come."—Joseph T. Cox, Colonel, US Army, retired, author of The Written Wars "Amazing; just amazing. Profound, powerful, startling. I'd be glad to be able to write these poems. I'm glad you can. And do. They're really good. And good to read. Thank you for what you write, for what you remember."—Daniel Ellsberg, author of Secrets: A Memoir of Vietnam and the Pentagon Papers and The Doomsday Machine: Confessions of a Nuclear War Planner "W.D. Ehrhart has been leading the vanguard of Vietnam War poets for decades. It's hardly news that Ehrhart has garnered the reputation of 'the dean of Vietnam war poetry.' But his poems over the last several decades are also steadily gaining him recognition as a major contemporary American poet, with a range far wider and deeper than that of just a Vietnam War poet. In fact, I cannot think of a poet who has been giving us deeper and more valuable insights to our epoch. His poetry is not just insightful and beautiful but also extraordinarily accessible."—H. Bruce Franklin, John Cotton Dana Professor of English & American Studies, Rutgers-Newark, Emeritus, author of Crash Course: From the Good War to the Forever War "W.D. Ehrhart is one of the most important and enduring writers to have emerged from the American war in Vietnam. Since the publication of his first collection, A Generation of Peace, in 1975, his prodigious poetic production has rightfully earned him a reputation as one of the preeminent poets of the war—a war that provoked an exceptional outpouring of poetry. The significance of his contribution to this extraordinary body of work cannot be overstated. Still, it would be a mistake to think of Ehrhart as solely a war poet. His pieces offer interesting reflections on many aspects of American life, and these poems are no less penetrating in their vision, skilled in their description, profound in their thinking, or powerful in their emotion than the war works. Ehrhart is a poet who deserves to be widely read."—Dr. Adam Gilbert, Leverhulme Fellow, University of Sussex, author of A Shadow on Our Hearts: Soldier-Poetry, Morality, and the American War in Vietnam "Bill Ehrhart is the poet perhaps of the Vietnam War."—Studs Terkel, oral historian and author of The Good War. Reviews of The Bodies Beneath the Table: "The Poetry of W.D. Ehrhart is sublime, earthy, gritty and delicate, precise and original, uniquely appealing to both the heart and the intellect."—M. L. Liebler, Wide Awake in Someone Else's Dream "Ehrhart takes the elemental experiences of our daily lives and transforms them into moments of compelling insight. These poems resonate with grace and decency."—Dale Ritterbusch, Far from the

Temple of Heaven. Reviews of *Beautiful Wreckage*: “Welded in the fires of Vietnam, these strong, sure, memorable poems encompass love, family, and supple lyrics like ‘The Way Light Bends.’ The clarity of vision and depth of feelings in these pages will enhance Bill Ehrhart’s standing as a major voice of his generation.”—Daniel Hoffman, poetry consultant to the Library of Congress, now known as Poet Laureate of the United States “Bill Ehrhart is a wonderful poet, a force of nature, a conscience that won’t let us off the hook. His writing is not the fashionable embroidery that these days too often passes for poetry. There are neither ready-made emotions nor ready-made answers here, only authentic experience, transmitted indelibly by Ehrhart’s craft and art. Anyone who can read this book without tears would be well-advised to go back and learn again how to read, and how to live.”—Philip Appleman, professor emeritus, Indiana University. Reviews of *Just for Laughs*: “Above all, Ehrhart’s poems warn, we are accountable to future generations; we have a choice about what values we will pass on and which stories we will tell.”—Lorrie Smith, *Landing Zones: Approaches to Literature of the Vietnam War* “Ehrhart’s voice may possess matter-of-fact rhythms, but that quality masques a content which bristles with intelligence and finally is downright startling.”—Michael Stephens, *The Dramaturgy of Style* “Ehrhart’s poetry seems to catch in its flat cadences a tough realism and, through its accessible and direct mode of address, a genuine voice of conscience.”—Alf Louvre and Jeffrey Walsh, *Tell Me Lies About Vietnam*. Fifty-five years in the writing, these are the collected poems of W.D. Ehrhart, one of the major figures in Vietnam War literature. Arranged chronologically, it allows readers to trace the development of a writer whose talents are bound together by the lingering physical, psychological, political and intellectual sensibilities the author first developed as a young enlisted Marine during the Vietnam War. And while many of the poems deal with the author’s encounter with the Vietnam War and its endless consequences, the poems range widely in content from family and friends to nature and the environment to the blessings and absurdities of the human condition. Focus on the financial concepts, skills, and technological applications that are critical for you in today’s workplace with Ehrhardt/Brigham’s *CORPORATE FINANCE: A FOCUSED APPROACH 6E*. With its relevant and engaging presentation and numerous examples, you will learn the latest financial developments as you also learn how to maximize a firm’s value in today’s changing business environment. You will master the features and functions of spreadsheets by using chapter Excel Tool Kits, Build a Model problems, and Mini Cases that encourage “what-if” analysis on a real-time basis. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Dieses Buch handelt von den deutschen Militäreinsätzen in Afghanistan und geht den politischen Entscheidungsprozessen über diese Einsätze nach. Es fragt in der Hauptsache, wie es zu einer Eskalation des deutschen Engagements kommen konnte, welche Faktoren dafür ausschlaggebend waren und wie sich in den politischen Entscheidungen das Verhältnis von Politik und Militär bestimmt. Understanding, finding, or even deciding on the existence of real solutions to a system of equations is a difficult problem with many applications outside of mathematics. While it is hopeless to expect much in general, we know a surprising amount about these questions for systems which possess additional structure often coming from geometry. This book focuses on equations from toric varieties and Grassmannians. Not only is much known about these, but such equations are common in applications. There are three main themes: upper bounds on the number of real solutions, lower bounds on the number of real solutions, and geometric problems that can have all solutions be real. The book begins with an overview, giving background on real solutions to univariate polynomials and the geometry of sparse polynomial systems. The first half of the book concludes with fewnomial upper bounds and with lower bounds to sparse polynomial systems. The second half of the book begins by sampling some geometric problems

for which all solutions can be real, before devoting the last five chapters to the Shapiro Conjecture, in which the relevant polynomial systems have only real solutions. Environmental Science: Systems and Solutions, Sixth Edition features updated data and additional tables with statistics throughout to lay the groundwork for a fair and apolitical foundational understanding of environmental science. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition. This volume contains the proceedings of two AMS Special Sessions on The Mathematics of Decisions, Elections, and Games, held January 4, 2012, in Boston, MA, and January 11-12, 2013, in San Diego, CA. Decision theory, voting theory, and game theory are three intertwined areas of mathematics that involve making optimal decisions under different contexts. Although these areas include their own mathematical results, much of the recent research in these areas involves developing and applying new perspectives from their intersection with other branches of mathematics, such as algebra, representation theory, combinatorics, convex geometry, dynamical systems, etc. The papers in this volume highlight and exploit the mathematical structure of decisions, elections, and games to model and to analyze problems from the social sciences. This book discusses the development of the Rosenbrock—Wanner methods from the origins of the idea to current research with the stable and efficient numerical solution and differential-algebraic systems of equations, still in focus. The reader gets a comprehensive insight into the classical methods as well as into the development and properties of novel W-methods, two-step and exponential Rosenbrock methods. In addition, descriptive applications from the fields of water and hydrogen network simulation and visual computing are presented. Focus on the financial concepts, skills, and technological applications that are most critical for MBA students in today's workplace with Ehrhardt/Brigham's CORPORATE FINANCE: A FOCUSED APPROACH 5E. The text provides an in-depth treatment of essential corporate finance topics within a streamlined presentation that can be completed in a single semester. With its relevant and engaging presentation and numerous examples, students will learn the latest financial developments as they also learn how to maximize a firm's value in today's changing business world. Students will master the many features and functions of spreadsheets with chapter Excel Tool Kits, Build a Model problems, and Mini Cases that encourage "what-if" analysis on a real-time basis. Students will also gain hands-on experience using Thomson ONE Business School Edition, which gives students access to the same Thomson Reuters Financial database that business professionals use every day. As part of its comprehensive product package, Ehrhardt/Brigham's CORPORATE FINANCE: A FOCUSED APPROACH 5E includes CengageNOW and the best-selling Aplia™ Finance as optional learning solutions that complement the book's focused presentation of corporate finance fundamentals, support course needs and outcomes, and help students become "First in Finance". Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. The Critical Importance Of Environmental Preservation Is Apparent To Everyone. The Issues Facing Us Today, Be They Global Warming, The Depleting Ozone Layer, The Controversy Over Nuclear Power, Or The Continuing Problems Of Water Pollution And Solid Waste Disposal, Are Headline News. Environmental Science: Systems And Solutions, Fourth Edition, Offers The Basic Principles Necessary To Understand And Address These Multi-Faceted And Often Very Complex Current Environmental Concerns. The Book Provides A Comprehensive Overview And Synthesis Of Environmental Science And Provides The Basic Factual Data Necessary To Understand The Environment As It Is Today. It Is Important That Students Understand How Various Aspects Of The Natural Environment Interconnect With Each Other And With Human Society. Using A Systems Approach, The Authors Have Organized Complex Information In A Way That Highlights These Connections In A Fair And Unbiased Fashion. A Study Guide Is

Incorporated At The End Of Each Chapter To Help Reinforce Concepts And Provide A Clear Overview Of Material. This international bestseller plumbs recently opened archives in the former Soviet bloc to reveal the accomplishments of communism around the world. The book is the first attempt to catalogue and analyse the crimes of communism over 70 years. The only text to strike a balance between solid financial theory and practical applications, Brigham/Ehrhardt's FINANCIAL MANAGEMENT: THEORY AND PRACTICE, 15e gives you a thorough understanding of the essential concepts you need to develop and implement effective financial strategies. The book begins with a presentation of corporate finance fundamentals before progressing to discussions of specific techniques used to maximize the value of a firm. It also explores the recent financial and economic crises and the role of finance in the business world. With its relevant and engaging presentation, numerous examples, and emphasis on Excel usage, this text serves as a complete reference tool for you in your academic or business career. The 15th edition is also available with learning solutions such as MindTap Finance, Aplia, and CengageNOW to help you to become First in Finance."

Exploring the Riemann Zeta Function: 190 years from Riemann's Birth presents a collection of chapters contributed by eminent experts devoted to the Riemann Zeta Function, its generalizations, and their various applications to several scientific disciplines, including Analytic Number Theory, Harmonic Analysis, Complex Analysis, Probability Theory, and related subjects. The book focuses on both old and new results towards the solution of long-standing problems as well as it features some key historical remarks. The purpose of this volume is to present in a unified way broad and deep areas of research in a self-contained manner. It will be particularly useful for graduate courses and seminars as well as it will make an excellent reference tool for graduate students and researchers in Mathematics, Mathematical Physics, Engineering and Cryptography. This richly illustrated textbook explores the amazing interaction between combinatorics, geometry, number theory, and analysis which arises in the interplay between polyhedra and lattices. Highly accessible to advanced undergraduates, as well as beginning graduate students, this second edition is perfect for a capstone course, and adds two new chapters, many new exercises, and updated open problems. For scientists, this text can be utilized as a self-contained tooling device. The topics include a friendly invitation to Ehrhart's theory of counting lattice points in polytopes, finite Fourier analysis, the Frobenius coin-exchange problem, Dedekind sums, solid angles, Euler–Maclaurin summation for polytopes, computational geometry, magic squares, zonotopes, and more. With more than 300 exercises and open research problems, the reader is an active participant, carried through diverse but tightly woven mathematical fields that are inspired by an innocently elementary question: What are the relationships between the continuous volume of a polytope and its discrete volume? Reviews of the first edition: "You owe it to yourself to pick up a copy of Computing the Continuous Discretely to read about a number of interesting problems in geometry, number theory, and combinatorics." — MAA Reviews "The book is written as an accessible and engaging textbook, with many examples, historical notes, pithy quotes, commentary integrating the material, exercises, open problems and an extensive bibliography." — Zentralblatt MATH "This beautiful book presents, at a level suitable for advanced undergraduates, a fairly complete introduction to the problem of counting lattice points inside a convex polyhedron." — Mathematical Reviews "Many departments recognize the need for capstone courses in which graduating students can see the tools they have acquired come together in some satisfying way. Beck and Robins have written the perfect text for such a course." — CHOICE EVERYONE'S GUIDE - FORECAST & SOLUTION introduces new, easy-to-use statistical methods so that the reader can answer the questions: How long will nuclear peace tend to continue? And, what can be done to extend it further? Dietrich Fischer, a past MacArthur Fellow at Princeton, was emphatic: "This is an original &

highly readable contribution to the most important issue facing humanity today - surviving the nuclear threat. Jeanes combines lucid common sense with mathematical rigor in this landmark work. Anyone with an interest in having a future should read this work." Similarly, another distinguished scholar & author in the field declared, "It was more than interesting: it was completely fascinating." The general literate reader can assess when a nuclear use (small or otherwise) would tend to occur at probabilities from 1% to 99.9%, & what precisely can be done to forestall such use. Jeanes debunks deterrence theory, illustrates consequences of proliferation, & provides a unified explanation for warfare, conventional & nuclear. A comprehensive work - ethical, political, historical, analytical. 100+ Graphs & Tables, 1,500+ footnotes. TOLL-FREE, 24 hours-a-day, credit card line (800) 448-3330; Publisher: (800) 446-0467. This book discusses the development of the Rosenbrock-Wanner methods from the origins of the idea to current research with the stable and efficient numerical solution and differential-algebraic systems of equations, still in focus. The reader gets a comprehensive insight into the classical methods as well as into the development and properties of novel W-methods, two-step and exponential Rosenbrock methods. In addition, descriptive applications from the fields of water and hydrogen network simulation and visual computing are presented. Through the story of the brief, brave life of a promising poet, the president and CEO of New York's Metropolitan Museum of Art evokes the turmoil and tragedy of the Vietnam War era. In *That Time* tells the story of the American experience in Vietnam through the life of Michael O'Donnell, a bright young musician and poet who served as a soldier and helicopter pilot. O'Donnell wrote with great sensitivity and poetic force, and his best-known poem is among the most beloved of the war. In 1970, during an attempt to rescue fellow soldiers stranded under heavy fire, O'Donnell's helicopter was shot down in the jungles of Cambodia. He remained missing in action for almost three decades. Although he never fired a shot in Vietnam, O'Donnell served in one of the most dangerous roles of the war, all the while using poetry to express his inner feelings and to reflect on the tragedy that was unfolding around him. O'Donnell's life is both a powerful, personal story and a compelling, universal one about how America lost its way in the 1960s, but also how hope can flower in the margins of even the darkest chapters of the American story. Intended for use in an introductory finance course, this textbook emphasizes the skills needed to make good financial decisions. It outlines fundamental concepts and provides detailed discussions of topics like securities, corporate valuation, strategic investment, and working capital management. Two CD-ROMs contain displays, tools kits, models, files, spreadsheets, and reference materials. Brigham teaches at the University of Florida. Ehrhardt teaches at the University of Tennessee. Distributed by ISBS. c. Book News Inc. The only text to strike a balance between solid financial theory and practical applications, Brigham/Ehrhardt's *FINANCIAL MANAGEMENT: THEORY AND PRACTICE*, 14e gives you a thorough understanding of the essential concepts you need to develop and implement effective financial strategies. The book begins with a presentation of corporate finance fundamentals before progressing to discussions of specific techniques used to maximize the value of a firm. It also explores the recent financial and economic crises and the role of finance in the business world. With its relevant and engaging presentation, numerous examples, and emphasis on Excel usage, this text serves as a complete reference tool for you in your academic or business career. Each new copy of Brigham/Ehrhardt's *FINANCIAL MANAGEMENT: THEORY AND PRACTICE*, 14e includes Thomson ONE Business School Edition, which gives you access to the same Thomson Reuters Financial database that business professionals use every day. It is also packed with additional learning solutions to help you to become First in Finance. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Emphasizing corporate valuation and its relevance to financial

decisions, Brigham/Ehrhardt's FINANCIAL MANAGEMENT: THEORY AND PRACTICE, 16th edition, ensures you see the forest and the trees. This proven author team equips you with a thorough understanding of key theoretical concepts along with practical tools to make effective financial decisions. Topics expand from fundamentals to strategic finance, linking recent events to the role of finance in business as well as your personal life. Completely up to date, it integrates the 2017 Tax Cut and Jobs Act throughout. With its relevant and engaging presentation, numerous examples and current coverage, FINANCIAL MANAGEMENT delivers a comprehensive resource that helps you become First in Finance. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A groundbreaking look at how technology with a human touch is revolutionizing government and industry Human Systems Integration (HSI) is very attractive as a new integrating discipline designed to help move business and engineering cultures toward a more people-technology orientation. Over the past decade, the United States and foreign governments have developed a wide range of tools, techniques, and technologies aimed at integrating human factors into engineering systems in order to achieve important cost and performance benefits that otherwise would not have been accomplished. In order for this new discipline to be effective, however, a cultural change is needed that must start with organizational leadership. Handbook of Human Systems Integration outlines the principles and methods that can be used to help integrate people, technology, and organizations with a common objective toward designing, developing, and operating systems effectively and efficiently. Handbook of Human Systems Integration is broad in scope, covering both public and commercial processes as they interface with systems engineering processes. Emphasizing the importance of management and organization concepts as well as the technical uniqueness of HSI, Handbook of Human Systems Integration features:

- * More than ninety contributors, technical advisors, and reviewers from government, industry, and academia
- * Comprehensive coverage of the most recent HSI developments, particularly in presenting the cutting-edge tools, techniques, and methodologies utilized by each of the HSI domains
- * Chapters representing the governments and industries of the United Kingdom and Canada
- * Contributions from three services of the Department of Defense along with the Federal Aviation Administration and the National Academy of Sciences
- * Many chapters covering both military and nonmilitary applications
- * Concepts widely used by government contractors both in the United States and abroad

This book will be of special interest to HSI practitioners, systems engineers, and managers, as well as government and industry decision-makers who must weigh the recommendations of all multidisciplines contributing to systems performance, safety, and costs in order to make sound systems acquisition decisions. Development-caused forced displacement and resettlement (DFDR) is a critical problem on the international development agenda. The frequency of forced displacements is rapidly increasing, the sheer numbers of uprooted and impoverished people reveal fast accelerating trends, whilst government reporting remains poor and misleading. Challenging the Prevailing Paradigm of Displacement and Resettlement analyzes widespread impoverishment outcomes, risks to human rights, and other adverse impacts of displacement; it documents under-compensation of expropriated people, critiques cost externalization on resettlers, and points a laser light on the absence of protective, robust, and binding legal frameworks in the overwhelming majority of developing countries. In response, this book proposes constructive solutions to improve quality and measure the outcomes of forced resettlement, prevent the mass-manufacturing of new poverty, promote social justice, and respect human rights. It also advocates for the reparation of bad legacies left behind by failed resettlement. It brings together prominent scholars and practitioners from several countries who argue that states, development agencies, and private sector corporations which trigger displacements must adopt a

"resettlement with development" paradigm. Towards this end, the book's co-authors translate cutting edge research into legal, economic, financial, policy, and pragmatic operational recommendations. An inspiring and compelling guide to the field, *Challenging the Prevailing Paradigm of Displacement and Resettlement* will be of interest to university faculty, government officials, private corporations, researchers, and students in anthropology, economics, sociology, law, political science, human geography, and international development. A New York Times bestseller! The historic race that reawakened the promise of manned spaceflight A Finalist for the PEN/E. O. Wilson Literary Science Writing Award Alone in a Spartan black cockpit, test pilot Mike Melvill rocketed toward space. He had eighty seconds to exceed the speed of sound and begin the climb to a target no civilian pilot had ever reached. He might not make it back alive. If he did, he would make history as the world's first commercial astronaut. The spectacle defied reason, the result of a competition dreamed up by entrepreneur Peter Diamandis, whose vision for a new race to space required small teams to do what only the world's largest governments had done before. Peter Diamandis was the son of hardworking immigrants who wanted their science prodigy to make the family proud and become a doctor. But from the age of eight, when he watched Apollo 11 land on the Moon, his singular goal was to get to space. When he realized NASA was winding down manned space flight, Diamandis set out on one of the great entrepreneurial adventure stories of our time. If the government wouldn't send him to space, he would create a private space flight industry himself. In the 1990s, this idea was the stuff of science fiction. Undaunted, Diamandis found inspiration in an unlikely place: the golden age of aviation. He discovered that Charles Lindbergh made his transatlantic flight to win a \$25,000 prize. The flight made Lindbergh the most famous man on earth and galvanized the airline industry. Why, Diamandis thought, couldn't the same be done for space flight? The story of the bullet-shaped SpaceShipOne, and the other teams in the hunt, is an extraordinary tale of making the impossible possible. It is driven by outsized characters—Burt Rutan, Richard Branson, John Carmack, Paul Allen—and obsessive pursuits. In the end, as Diamandis dreamed, the result wasn't just a victory for one team; it was the foundation for a new industry and a new age. This book gathers peer-reviewed contributions submitted to the 21st European Conference on Mathematics for Industry, ECMI 2021, which was virtually held online, hosted by the University of Wuppertal, Germany, from April 13th to April 15th, 2021. The works explore mathematics in a wide variety of applications, ranging from problems in electronics, energy and the environment, to mechanics and mechatronics. Topics covered include: Applied Physics, Biology and Medicine, Cybersecurity, Data Science, Economics, Finance and Insurance, Energy, Production Systems, Social Challenges, and Vehicles and Transportation. The goal of the European Consortium for Mathematics in Industry (ECMI) conference series is to promote interaction between academia and industry, leading to innovations in both fields. These events have attracted leading experts from business, science and academia, and have promoted the application of novel mathematical technologies to industry. They have also encouraged industrial sectors to share challenging problems where mathematicians can provide fresh insights and perspectives. Lastly, the ECMI conferences are one of the main forums in which significant advances in industrial mathematics are presented, bringing together prominent figures from business, science and academia to promote the use of innovative mathematics in industry. This book discusses the state-of-the-art and open problems in computational finance. It presents a collection of research outcomes and reviews of the work from the STRIKE project, an FP7 Marie Curie Initial Training Network (ITN) project in which academic partners trained early-stage researchers in close cooperation with a broader range of associated partners, including from the private sector. The aim of the project was to arrive at a deeper understanding of complex (mostly nonlinear) financial models and to develop effective

and robust numerical schemes for solving linear and nonlinear problems arising from the mathematical theory of pricing financial derivatives and related financial products. This was accomplished by means of financial modelling, mathematical analysis and numerical simulations, optimal control techniques and validation of models. In recent years the computational complexity of mathematical models employed in financial mathematics has witnessed tremendous growth. Advanced numerical techniques are now essential to the majority of present-day applications in the financial industry. Special attention is devoted to a uniform methodology for both testing the latest achievements and simultaneously educating young PhD students. Most of the mathematical codes are linked into a novel computational finance toolbox, which is provided in MATLAB and PYTHON with an open access license. The book offers a valuable guide for researchers in computational finance and related areas, e.g. energy markets, with an interest in industrial mathematics.

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