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Beyond the Basic Stuff with Python John Wiley & Sons

This two-volume monograph presents new methods of construction of global asymptotics of solutions to nonlinear equations with small parameter. These allow one to match the asymptotics of various properties with each other in transition regions and to get unified formulas for the connection of characteristic parameters of approximate solutions. This approach underlies modern asymptotic methods and gives a deep insight into crucial nonlinear phenomena in the natural sciences. These include the outset of chaos in dynamical systems, incipient solitary and shock waves, oscillatory processes in crystals, engineering applications, and quantum systems. Apart from being of independent interest, such approximate solutions serve as a foolproof basis for testing numerical algorithms. This first volume presents asymptotic methods in oscillation and resonance problems described by ordinary differential equations, whereby the second volume will be devoted to applications of asymptotic methods in waves and boundary value problems. Contents Asymptotic expansions and series Asymptotic methods for solving nonlinear equations Nonlinear oscillator in potential well Autoresonances in nonlinear systems Asymptotics for loss of stability Systems of coupled oscillators

Teaching Mathematics Today 2nd Edition Teacher Created Materials

- New York Times bestseller
- The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and

policymakers around the world “ At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope. ” —Per Espen Stoknes, Author, What We Think About When We Try Not To Think About Global Warming “ There ’ s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom. ” —David Roberts, Vox “ This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook. ” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth ’ s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

Almost Periodic Solutions of Differential Equations in Banach Spaces Springer Science & Business Media

This book constitutes selected best papers from the 10th International Conference on Artificial Evolution, EA 2011, held in Angers, France, in October 2011. Initially, 33 full papers and 10 post papers were carefully reviewed and selected from 64 submissions. This book presents the 19 best papers selected from these contributions. The papers are organized in topical sections on ant colony optimization; multi-objective optimization; analysis; implementation and robotics; combinatorial optimization; learning and parameter tuning; new nature inspired models; probabilistic algorithms; theory and

evolutionary search; and applications.

Winning in the Robotic Workplace: How to Prosper in the Automation Age Walter de Gruyter GmbH & Co KG

This text for a second course in linear algebra, aimed at math majors and graduates, adopts a novel approach by banishing determinants to the end of the book and focusing on understanding the structure of linear operators on vector spaces. The author has taken unusual care to motivate concepts and to simplify proofs. For example, the book presents - without having defined determinants - a clean proof that every linear operator on a finite-dimensional complex vector space has an eigenvalue. The book starts by discussing vector spaces, linear independence, span, basics, and dimension. Students are introduced to inner-product spaces in the first half of the book and shortly thereafter to the finite-dimensional spectral theorem. A variety of interesting exercises in each chapter helps students understand and manipulate the objects of linear algebra. This second edition features new chapters on diagonal matrices, on linear functionals and adjoints, and on the spectral theorem; some sections, such as those on self-adjoint and normal operators, have been entirely rewritten; and hundreds of minor improvements have been made throughout the text.

All We Can Save Self Publisher

IF IT'S ON THE TEST, IT'S IN THIS BOOK. The Princeton Review ’ s MCAT® General Chemistry Review brings you everything you need to ace the gen-chem concepts found on the MCAT, including thorough subject reviews, example practice questions with step-by-step explanations, hundreds of practice problems, and 3 full-length practice tests. Inside this book, you ’ ll find proven strategies for tackling and overcoming challenging questions, along with all the practice you need to help get the score you want. Everything You Need to Know to Help Achieve a High Score. • In-depth coverage of the challenging general chemistry topics on this important test • Sample MCAT questions with step-by-step walk-through explanations • Bulleted chapter summaries for quick review • Full-color illustrations, diagrams, and tables • Extensive glossary for handy reference Practice Your Way to Excellence. • Access to 3 full-length practice tests online to help you gauge your progress • End-of-chapter drills and explanations • MCAT-style practice passages and

questions • Test-taking strategies geared toward gen-chem mastery Gain Mastery of These and Other General Chemistry Topics! • Chemistry Fundamentals • Atomic Structure and Periodic Trends • Bonding and Intermolecular Forces • Thermodynamics • Phases • Gases • Kinetics • Equilibrium • Acids and Bases • Electrochemistry • MCAT Math for General Chemistry

Genetic Algorithms in Java Basics Courier Corporation

This book consists of two titles, which are the following: Book 1: Dyslexia may be more common than you think. And it's important to know about it if someone has it. What's even more crucial, is knowing how to recognize it, learning to deal with it, and find solutions to solve some of the common problems it can create. In this book, you will find answers to many questions you may have about dyslexia. Topics vary from the symptoms, the strengths of a person who has it, treatment, the relationship to math, and how society and school systems have positively and negatively managed to cope with this learning disability. I encourage you to take a look inside or listen to a sample, so you can become more familiar with this subject. Book 2: People with dyslexia may struggle with many things. As kids, they try to keep up with the reading process in their classes. As adults, they may be good at reading but still not like it or have trouble with vocabulary. What kinds of other problems come with being dyslexic? This book will address these issues. Aside from that, we'll look into the connection between dyslexia, dyscalculia, dysgraphia, and other learning disabilities. We'll get into the root of the hereditary factors of dyslexia, and we'll compare the dyslexic percentages among males and females. These are just several of the many things you can learn from this book.

Number Theory I Simon and Schuster

This profoundly ambitious and original book picks its way carefully through a vast tract of forbiddingly difficult intellectual terrain.

7 days of being kinder John Wiley & Sons

This book will examine the history of robotics and explicate what massive automation means for the present and future of

labor in all its forms, from mills and factories to the white-collar offices of suburbia and more. The latest research and analysis on the impact of AI and automation on the present job market Insights on the growing capabilities of AI and machine learning Ten short chapters that detail jobs that will be lost—and preserved—in the automation age Multiple examples of automation and job replacement by machines An appendix that provides real world exercises in obtaining skills needed in the automation age

Mathematics One World

Shows how we must make deep changes to complete our paradigm shift from the old mechanistic worldview to the new organic worldview • Reveals the distinct stages of paradigm shifts through the ages, including the 18th-century Enlightenment and the critical stage of our current shift • Explains how the new organic worldview began with Goethe and Kant • Offers solutions for each of us to be able to realize and make the deep changes needed for global regeneration In *Global Awakening*, Michael Schacker shows that hidden within our global crises is a positive future for the planet. Sharing his 30 years of intensive research into the history of change as well as the evolution of consciousness and regenerative science, Schacker explains how our current shift from the old mechanistic worldview to a new organic worldview based on biological models follows the same pattern as other paradigm shifts across history, including the 18th-century Enlightenment and the American Revolution. He reveals the creative geniuses who have contributed to the birth of the organic worldview, beginning with Goethe, Kant, and Hahnemann. Exposing the scientific and social forces that drive paradigm shifts, he details the stages every paradigm shift progresses through: the early Enlightenment, the conservative backlash, the intensive phase, and the transformational phase leading to the Organic Shift. Explaining that we are currently in the throes of the paradigm flip, the critical last phase of our paradigm shift, Schacker shows how the mechanistic worldview is crumbling around us and nothing but a complete transformation in the way we think will

keep us from the path of total self-destruction. Providing a map to overcome the allure of the simplistic mechanical model that has spawned countless unsustainable practices and problems--from global warming to intense economic disparities--the author offers concrete solutions showing how each of us can use our talents, skills, and time to make the deep changes needed for global regeneration.

Drawdown Penguin

This monograph presents recent developments in spectral conditions for the existence of periodic and almost periodic solutions of inhomogeneous equations in Banach Spaces. Many of the results represent significant advances in this area. In particular, the authors systematically present a new approach based on the so-called evolution semigroups with an original decomposition technique. The book also extends classical techniques, such as fixed points and stability methods, to abstract functional differential equations with applications to partial functional differential equations. *Almost Periodic Solutions of Differential Equations in Banach Spaces* will appeal to anyone working in mathematical analysis.

Leading with Questions Springer

NATIONAL BESTSELLER • Provocative and illuminating essays from women at the forefront of the climate movement who are harnessing truth, courage, and solutions to lead humanity forward. "A powerful read that fills one with, dare I say . . . hope?" —The New York Times **NAMED ONE OF THE BEST BOOKS OF THE YEAR BY SMITHSONIAN MAGAZINE** There is a renaissance blooming in the climate movement: leadership that is more characteristically feminine and more faithfully feminist, rooted in compassion, connection, creativity, and collaboration. While it's clear that women and girls are vital voices and agents of change for this planet, they are too often missing from the proverbial table. More than a problem of bias, it's a dynamic that sets us up for failure. To change everything, we need everyone. *All We Can Save* illuminates the expertise and insights of dozens of diverse women leading on climate in the United States—scientists, journalists, farmers, lawyers, teachers, activists, innovators, workers, and designers, across generations, geographies, and race—and aims to advance a more representative, nuanced, and solution-oriented public conversation on the climate crisis. These women offer a

spectrum of ideas and insights for how we can rapidly, radically reshape society. Intermixing essays with poetry and art, this book is both a balm and a guide for knowing and holding what has been done to the world, while bolstering our resolve never to give up on one another or our collective future. We must summon truth, courage, and solutions to turn away from the brink and toward life-giving possibility.

Curated by two climate leaders, the book is a collection and celebration of visionaries who are leading us on a path toward all we can save. With essays and poems by: Emily Atkin • Xiye Bastida • Ellen Bass • Colette Pichon Battle • Jainey K. Bavishi • Janine Benyus • adrienne maree brown • Régine Clément • Abigail Dillen • Camille T. Dungy • Rhiana Gunn-Wright • Joy Harjo • Katharine Hayhoe • Mary Anna ĩ se Heglar • Jane Hirshfield • Mary Anne Hitt • Ailish Hopper • Tara Houska, Zhaabowekwe • Emily N. Johnston • Joan Naviyuk Kane • Naomi Klein • Kate Knuth • Ada Limón • Louise Maher-Johnson • Kate Marvel • Gina McCarthy • Anne Haven McDonnell • Sarah Miller • Sherri Mitchell, Weh'na Ha'mu Kwasset • Susanne C. Moseley • Lynna Odel • Sharon Olds • Mary Oliver • Kate Orff • Jacqui Patterson • Leah Penniman • Catherine Pierce • Marge Piercy • Kendra Pierre-Louis • Varshini • Prakash • Janisse Ray • Christine E. Nieves Rodriguez • Favianna Rodriguez • Cameron Russell • Ash Sanders • Judith D. Schwartz • Patricia Smith • Emily Stengel • Sarah Stillman • Leah Cardamore Stokes • Amanda Sturgeon • Maggie Thomas • Heather McTeer Toney • Alexandria Villaseñor • Alice Walker • Amy Westervelt • Jane Zelikova

Oscillations and Resonances CQ Press

The “ language-communication-society ” triangle defies traditional scientific approaches. Rather, it is a phenomenon that calls for an integration of complex, transdisciplinary perspectives, if we are to make any progress in understanding how it works. The highly diverse agents in play are not merely cognitive and/or cultural, but also emotional and behavioural in their specificity. Indeed, the effort may require building a theoretical and methodological body of knowledge that can effectively convey the characteristic properties of phenomena in human terms. New complexity approaches allow us to rethink our limited and mechanistic images of human societies and create more appropriate emo-cognitive dynamic and holistic models. We have to enter into dialogue with the

complexity views coming out of other more ‘ material ’ sciences, but we also need to take steps in the linguistic and psycho-sociological fields towards creating perspectives and concepts better fitted to human characteristics. Our understanding of complexity is different – but not opposed – to the one that is more commonly found in texts written by people working in physics or computer science, for example. The goal of this book is to extend the knowledge of these other more ‘ human ’ or socially oriented perspectives on complexity, taking account of the language and communication singularities of human agents in society. Our understanding of complexity is different – but not opposed – to the one that is more commonly found in texts written by people working in physics or computer science, for example. The goal of this book is to extend the knowledge of these other more ‘ human ’ or socially oriented perspectives on complexity, taking account of the language and communication singularities of human agents in society.

The Regulation of Monopoly One World

DrawdownPenguin

Complexity Perspectives on Language, Communication and Society Apress

This book constitutes the refereed proceedings of the 5th International Workshop on Experimental and Efficient Algorithms, WEA 2006, held in Menorca, Spain, May 2006. The book presents 26 revised full papers together with 3 invited talks. The application areas addressed include most fields applying advanced algorithmic techniques, such as combinatorial optimization, approximation, graph theory, discrete mathematics, scheduling, searching, sorting, string matching, coding, networking, and more.

VLSI-SoC: The Advanced Research for Systems on Chip Springer

In 2016, Americans fed up with the political process vented that frustration with their votes. Republicans nominated for president a wealthy businessman and former reality show host best known on the campaign

trail for his sharp rhetoric against immigration and foreign trade. Democrats nearly selected a self-described socialist who ran on a populist platform against the influence of big money in politics. While it is not surprising that Americans would channel their frustrations into votes for contenders who pledge to end business as usual, the truth is that we don't have to pin our hopes for greater participation on any one candidate. All of us have a say—if we learn, master and practice the skills of effective citizenship. One of the biggest roadblocks to participation in democracy is the perception that privileged citizens and special interests command the levers of power and that everyday Americans can't fight City Hall. That perception is undoubtedly why a 2015 Pew Charitable Trusts survey found that 74 percent of those Americans surveyed believed that most elected officials didn't care what people like them thought. Graham and Hand intend to change that conventional wisdom by showing citizens how to flex their citizenship muscles. They describe effective citizenship skills and provide tips from civic experts. Even more importantly, they offer numerous examples of everyday Americans who have used their skills to make democracy respond. The reader will see themselves in these examples of citizens who chose to be victorious participants rather than tranquil spectators in the arena of democracy. By the end of the book, you will have new confidence that citizen participation is the lifeblood of America -- and will be ready to make governments work for you, not the other way around. Springer

A practical handbook packed with expert advice on architectural considerations for designing solutions using SAP BTP to drive digital innovation Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Guide your customers with proven architectural strategies and considerations on SAP BTP Tackle challenges in building process and data integration across complex and hybrid landscapes Discover SAP BTP services, including visualizations, practical business scenarios, and more Book Description SAP BTP is the foundation of SAP's intelligent and sustainable enterprise vision for its customers. It's efficient, agile, and an enabler of innovation. It's technically robust, yet its superpower is its business

centricity. If you're involved in building IT and business strategies, it's essential to familiarize yourself with SAP BTP to see the big picture for digitalization with SAP solutions. Similarly, if you have design responsibilities for enterprise solutions, learning SAP BTP is crucial to produce effective and complete architecture designs. This book teaches you about SAP BTP in five parts. First, you'll see how SAP BTP is positioned in the intelligent enterprise. In the second part, you'll learn the foundational elements of SAP BTP and find out how it operates. The next part covers integration architecture guidelines, integration strategy considerations, and integration styles with SAP's integration technologies. Later, you'll learn how to use application development capabilities to extend enterprise solutions for innovation and agility. This part also includes digital experience and process automation capabilities. The last part covers how SAP BTP can facilitate data-to-value use cases to produce actionable business insights. By the end of this SAP book, you'll be able to architect solutions using SAP BTP to deliver high business value. What you will learn

Explore value propositions and business processes enabled by SAP's Intelligent and Sustainable Enterprise Understand SAP BTP's foundational elements, such as commercial and account models Discover services that can be part of solution designs to fulfill non-functional requirements Get to grips with integration and extensibility services for building robust solutions Understand what SAP BTP offers for digital experience and process automation Explore data-to-value services that can help manage data and build analytics use cases Who this book is for This SAP guide is for technical architects, solutions architects, and enterprise architects working with SAP solutions to drive digital transformation and innovation with SAP BTP. Some IT background and an understanding of basic cloud concepts is assumed. Working knowledge of the SAP ecosystem will also be beneficial.

Superintelligence Oxford University Press, USA

This second edition is a must-read for today's mathematics teachers offering research-based strategies and best practices that are critical and highly effective in mathematics instruction. This invaluable resource provides practical suggestions, resources, and templates to support the areas of classroom

management, instructional planning, content and practice environments, parallel numerical algorithms, applications, standard implementation, assessment, and differentiation, and evolutionary computing and neural networks.

as well as methods to build students' conceptual understanding. It also guides teachers in using the Professional Learning Community model effectively in order to support professional growth and student achievement. With a focus on student thinking and learning, this book is an essential guide for all educators.

Critical Developments and Applications of Swarm Intelligence IGI Global

In *Leading with Questions*, internationally acclaimed management consultant Michael Marquardt shows how you can learn to ask the powerful questions that will generate short-term results and long-term learning and success. Throughout the book, he demonstrates how effective leaders use questions to encourage participation and teamwork, foster outside-the-box thinking, empower others, build relationships with customers, solve problems, and much more. Based on interviews with twenty-two successful leaders who "lead with questions," this important book reveals how to determine which questions will lead to solutions in today's complicated business world.

Finding All Solutions If You Can Find One Springer

The Larson Calculus program has a long history of innovation in the calculus market. It has been widely praised by a generation of students and professors for its solid and effective pedagogy that addresses the needs of a broad range of teaching and learning styles and environments. Each title is just one component in a comprehensive calculus course program that carefully integrates and coordinates print, media, and technology products for successful teaching and learning. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Experimental Algorithms BoD – Books on Demand

This book constitutes the thoroughly refereed post-proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics, PPAM 2002, held in Naleczow, Poland, in September 2001. The 101 papers presented were carefully reviewed and improved during two rounds of reviewing and revision. The book offers topical sections on distributed and grid architectures, scheduling and load balancing, performance analysis and prediction, parallel non-numerical algorithms, parallel programming, tools and