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S is for Scientists **FORTRAN FOR SCIENTISTS & ENGINEERS** *Advice to Rocket Scientists* **Physics for Scientists and Engineers** Marketing for Scientists *A Little Book for New Scientists* **Physics for Scientists and Engineers** **Electronics and Communications for Scientists and Engineers** *Physics, for Scientists and Engineers/with Modern Physics* **Physics for Scientists and Engineers** Special Functions for Scientists and Engineers **C for Scientists and Engineers** **Applied Calculus for Scientists and Engineers** *Python for Scientists* **Physics for Scientists and Engineers** *The End Of Science* **Visual Strategies Algebraic Geometry for Scientists and Engineers** Science for the People **Scientist, Scientist, Who Do You See?** *Essential Java for Scientists and Engineers* **Scientists Must Write Presentation Skills for Scientists and Engineers** *Mind, Life and Universe* Science and the Good Determinants and Controls of Scientific Development *Encyclopedia of Sustainability Science and Technology* **A Guide to Microsoft Excel 2013 for Scientists and Engineers** **Data Analysis for Scientists and Engineers** *Physics for Scientists and Engineers: Foundations and Connections, Volume 1* *Manpower Resources for Scientific Activities at Universities and Colleges* Research Ethics for Scientists **Electronics for Scientists** **F# for Scientists** **Matrix Theory and Applications for Scientists and Engineers** *The Road to Stockholm* *Complex Variables for Scientists and Engineers* *Lab Dynamics* An Instinct for Truth *The Role of Scientists in the Professional Development of Science Teachers*

Essential Java serves as an introduction to the programming language, Java, for scientists and engineers, and can also be used by experienced programmers wishing to learn Java as an additional language. The book focuses on how Java, and object-oriented programming, can be used to solve science and engineering problems. Many examples are included from a number of different scientific and engineering areas, as well as from business and everyday life. Pre-written packages of code are provided to help in such areas as input/output, matrix manipulation and scientific graphing. Java source code and solutions to selected exercises are available at: www.bh.com/companions/0750659912 A free solutions manual is available to lecturers at: <http://textbooks.elsevier.com> * Takes a 'dive-in' approach, getting the reader writing and running programs immediately * Teaches object-oriented programming for problem-solving in engineering and science * Fully supported with online resources and listings to download Why efforts to create a scientific basis of morality are neither scientific nor moral In this illuminating book, James Davison Hunter and Paul Nedelisky trace the origins and development of the centuries-long, passionate, but ultimately failed quest to discover a scientific foundation for morality. The "new moral science" led by such figures as E. O. Wilson, Patricia Churchland, Sam Harris, Jonathan Haidt, and Joshua Greene is only the newest manifestation of that quest. Though claims for its accomplishments are often wildly exaggerated, this new iteration has been no more successful than its predecessors. But rather than giving up in the face of this failure, the new moral science has taken a surprising turn. Whereas earlier efforts sought to demonstrate what is right and wrong, the new moral scientists have concluded, ironically, that right and wrong don't actually exist. Their (perhaps unwitting) moral nihilism turns the science of morality into a social engineering project. If there is nothing moral for science to discover, the science of morality becomes, at best, a feeble program to achieve arbitrary societal goals. Concise and rigorously argued, *Science and the Good* is a definitive critique of a would-be science that has gained extraordinary influence in public discourse today and an exposé of that project's darker turn. Many young Christians interested in the sciences have felt torn between two options: remaining faithful to Christ or studying science. In this concise introduction, Josh Reeves and Steve Donaldson provide both advice and encouragement for Christians in the sciences to bridge the gap between science and Christian belief and practice. Scientists nationwide are showing greater interest in contributing to the reform of science education, yet many do not know how to begin. This highly readable book serves as a guide for those scientists interested in working on the professional development of K-12 science teachers. Based on information from over 180 professional development programs for science teachers, the volume addresses what kinds of activities work and why. Included are useful examples of programs focusing on issues of content and process in science teaching. The authors present "day-in-a-life" vignettes, along with a suggested reading list, to help familiarize scientists with the professional lives of K-12 science teachers. The book also offers scientists suggestions on how to take first steps toward involvement, how to identify programs that have been determined effective by teachers, and how to become involved in system-wide programs. Discussions on ways of working with teachers on program design, program evaluation, and funding sources are included. Accessible and practical, this book will be a welcome resource for university, institutional, and corporate scientists; teachers; teacher educators; organizations; administrators; and parents. *Research Ethics for Scientists* is about best practices in all the major areas of research management and practice that are common to scientific researchers, especially those in academia. Aimed towards the younger scientist, the book critically examines the key areas that continue to plague even experienced and well-meaning science professionals. For ease of use, the book is arranged in functional themes and units that every scientist recognizes as crucial for sustained success in science; ideas, people, data, publications and funding. These key themes will help to highlight the elements of successful and ethical research as well as challenging the reader to develop their own ideas of how to conduct themselves within their work. Tackles the ethical issues of being a scientist rather than the ethical questions raised by science itself Case studies used for a practical approach Written by an experienced researcher and PhD mentor Accessible, user-friendly advice Indispensable companion for students and young scientists New extended edition of the classic text, now more than ever tailored to meet the needs of the struggling student. An exploration of the scientific mindset—such character virtues as curiosity, veracity, attentiveness, and humility to evidence—and its importance for science, democracy, and human flourishing. Exemplary scientists have a characteristic way of viewing the world and their work: their mindset and methods all aim at discovering truths about nature. In *An Instinct for Truth*, Robert Pennock explores this scientific mindset and argues that what Charles Darwin called “an instinct for truth, knowledge, and discovery” has a tacit moral structure—that it is important not only for scientific excellence and integrity but also for democracy and human flourishing. In an era of “post-truth,” the scientific drive to discover empirical truths has a special value. Taking a virtue-theoretic perspective, Pennock explores curiosity, veracity, skepticism, humility to evidence, and other scientific virtues and vices. He explains that curiosity is the most distinctive element of the scientific character, by which other norms are shaped; discusses the passionate nature of scientific attentiveness; and calls for science education not only to teach scientific findings and methods but also to nurture the scientific mindset and its core values. Drawing on historical sources as well as a sociological study of more than a thousand scientists, Pennock's philosophical account is grounded in values that scientists themselves recognize they should aspire to. Pennock argues that epistemic and ethical values are normatively interconnected, and that for science and society to flourish, we need not just a philosophy of science, but a philosophy of the scientist. Nearly forty of the world's most esteemed scientists discuss the big questions that drive their illustrious careers. Co-editor Eduardo Punset—one of Spain's most loved personages for his popularization of the sciences—interviews an impressive collection of characters drawing out the seldom seen personalities of the world's most important men and woman of science. In *Mind, Life and Universe* they describe in their own words the most important and fascinating aspects of their research. Frank and often irreverent, these interviews will keep even the most casual reader of science books rapt for hours. Can brain science explain feelings of happiness and despair? Is it true that chimpanzees are just like us when it comes to sexual innuendo? Is there any hard evidence that life exists anywhere other than on the Earth? Through Punset's skillful questioning, readers will meet one scientist who is passionate about the genetic control of everything and another who spends her every waking hour making sure African ecosystems stay intact. The men and women assembled here by Lynn Margulis and Eduardo Punset will provide a source of endless interest. In captivating conversations with such science luminaries as Jane Goodall, James E. Lovelock, Oliver Sachs, and E. O. Wilson, Punset reveals a hidden world of intellectual interests, verve, and humor. Science enthusiasts and general readers alike will devour *Mind, Life and Universe*, breathless and enchanted by its truths. A former NASA engineer and astronautics professor offers down-to-earth advice and recommended reading on preparing for and surviving in science-related professions. This book is especially valuable for those who are attempting career transitions between the work place and academic environments. As staff writer for *Scientific American*, John Horgan has a window on contemporary science unsurpassed in all the world. Who else routinely interviews the likes of Lynn Margulis, Roger Penrose, Francis Crick, Richard Dawkins, Freeman Dyson, Murray Gell-Mann, Stephen Jay Gould, Stephen Hawking, Thomas Kuhn, Chris Langton, Karl Popper, Stephen Weinberg, and E.O. Wilson, with the freedom to probe their innermost thoughts? In *The End Of Science*, Horgan displays his genius for getting these larger-than-life figures to be simply human, and

scientists, he writes, "are rarely so human . . . so at their mercy of their fears and desires, as when they are confronting the limits of knowledge." This is the secret fear that Horgan pursues throughout this remarkable book: Have the big questions all been answered? Has all the knowledge worth pursuing become known? Will there be a final "theory of everything" that signals the end? Is the age of great discoverers behind us? Is science today reduced to mere puzzle solving and adding details to existing theories? Horgan extracts surprisingly candid answers to these and other delicate questions as he discusses God, Star Trek, superstrings, quarks, plectics, consciousness, Neural Darwinism, Marx's view of progress, Kuhn's view of revolutions, cellular automata, robots, and the Omega Point, with Fred Hoyle, Noam Chomsky, John Wheeler, Clifford Geertz, and dozens of other eminent scholars. The resulting narrative will both infuriate and delight as it mindlessly Horgan's smart, contrarian argument for "endism" with a witty, thoughtful, even profound overview of the entire scientific enterprise. Scientists have always set themselves apart from other scholars in the belief that they do not construct the truth, they discover it. Their work is not interpretation but simple revelation of what exists in the empirical universe. But science itself keeps imposing limits on its own power. Special relativity prohibits the transmission of matter or information as speeds faster than that of light; quantum mechanics dictates uncertainty; and chaos theory confirms the impossibility of complete prediction. Meanwhile, the very idea of scientific rationality is under fire from Neo-Luddites, animal-rights activists, religious fundamentalists, and New Agers alike. As Horgan makes clear, perhaps the greatest threat to science may come from losing its special place in the hierarchy of disciplines, being reduced to something more akin to literary criticism as more and more theoreticians engage in the theory twiddling he calls "ironic science." Still, while Horgan offers his critique, grounded in the thinking of the world's leading researchers, he offers homage too. If science is ending, he maintains, it is only because it has done its work so well. It's a tough time to be a scientist: universities are shuttering science departments, federal funding agencies are facing flat budgets, and many newspapers have dropped their science sections altogether. But according to Marc Kuchner, this antisience climate doesn't have to equal a career death knell—it just means scientists have to be savvier about promoting their work and themselves. In *Marketing for Scientists*, he provides clear, detailed advice about how to land a good job, win funding, and shape the public debate. As an astrophysicist at NASA, Kuchner knows that "marketing" can seem like a superficial distraction, whether your daily work is searching for new planets or seeking a cure for cancer. In fact, he argues, it's a critical component of the modern scientific endeavor, not only advancing personal careers but also society's knowledge. Kuchner approaches marketing as a science in itself. He translates theories about human interaction and sense of self into methods for building relationships—one of the most critical skills in any profession. And he explains how to brand yourself effectively—how to get articles published, give compelling presentations, use social media like Facebook and Twitter, and impress potential employers and funders. Like any good scientist, Kuchner bases his conclusions on years of study and experimentation. In *Marketing for Scientists*, he distills the strategies needed to keep pace in a Web 2.0 world. A scientific twist on a beloved children's classic that's sure to delight both parent and child! *Scientist, Scientist, Who do you see? I see Marie Curie in her laboratory!* The adored children's classic *Brown Bear, Brown Bear* gets a nerdy makeover in this science picture book by the #1 bestselling science author for kids. Chris Ferrie! Young readers will delight at taking a familiar text and poking fun at it all while learning about scientists and how they changed the world. Back matter includes brief biographical information of the featured scientists. This sweet baby scientist book parody is the perfect inspiration for scientists of all ages! One of the best books about scientists for kids of the year! Full of scientific rhyming fun, *Scientist, Scientist, Who Do You See?* features appearances by some of the world's greatest scientists! From Albert Einstein to Marie Curie and Ahmed Zewail, from Charles Darwin to Chien-Shiung Wu and Grace Hopper... and more! Report provides information on trends in overall employment levels: in teaching versus research; at public versus private universities and colleges; and for women scientists and engineers. *Electronics and Communications for Scientists and Engineers, Second Edition*, offers a valuable and unique overview on the basics of electronic technology and the internet. Class-tested over many years with students at Northwestern University, this useful text covers the essential electronics and communications topics for students and practitioners in engineering, physics, chemistry, and other applied sciences. It describes the electronic underpinnings of the World Wide Web and explains the basics of digital technology, including computing and communications, circuits, analog and digital electronics, as well as special topics such as operational amplifiers, data compression, ultra high definition TV, artificial intelligence, and quantum computers. Incorporates comprehensive updates and expanded material in all chapters where appropriate. Includes new problems added throughout the text. Features an updated section on RLC circuits. Presents revised and new content in Chapters 7, 8, and 9 on digital systems, showing the many changes and rapid progress in these areas since 2000. "Lab Dynamics is a book about the challenges to doing science and dealing with the individuals involved, including oneself. The authors, a scientist and a psychotherapist, draw on principles of group and behavioral psychology but speak to scientists in their own language about their own experiences. They offer in-depth, practical advice, real-life examples, and exercises tailored to scientific and technical workplaces on topics as diverse as conflict resolution, negotiation, dealing with supervision, working with competing peers, and making the transition from academia to industry." "This is a uniquely valuable contribution to the scientific literature, on a subject of direct importance to lab heads, postdocs, and students. It is also required reading for senior staff concerned about improving efficiency and effectiveness in academic and industrial research." --BOOK JACKET This book provides concise and effective tips spanning all relevant areas to deliver engaging scientific presentations. Readers will strengthen their skills in preparing, practicing and delivering presentations at both physical and virtual conferences and seminars. Best practices for structuring presentations and elements to include and those to exclude such as detailed sections on the use of videos, animations and tables are included. Common errors often seen in scientific presentations are highlighted along with tips on how to interact with audiences and keep them engaged. This will be a valuable resource for scientists in all areas of chemistry and materials science as well as engineers who wish to elevate their scientific presentations. The *Encyclopedia of Sustainability Science and Technology (ESST)* addresses the grand challenge for science and engineering today. It provides unprecedented, peer-reviewed coverage in more than 550 separate entries comprising 38 topical sections. ESST establishes a foundation for the many sustainability and policy evaluations being performed in institutions worldwide. An indispensable resource for scientists and engineers in developing new technologies and for applying existing technologies to sustainability, the *Encyclopedia of Sustainability Science and Technology* is presented at the university and professional level needed for scientists, engineers, and their students to support real progress in sustainability science and technology. Although the emphasis is on science and technology rather than policy, the *Encyclopedia of Sustainability Science and Technology* is also a comprehensive and authoritative resource for policy makers who want to understand the scope of research and development and how these bottom-up innovations map on to the sustainability challenge. Helps scientists and engineers to communicate research results by showing how to create effective graphics for use in journal submissions, grant proposals, conference posters, presentations and more. *Fortran for Scientists and Engineers* teaches simultaneously both the fundamentals of the Fortran language and a programming style that results in good, maintainable programs. In addition, it serves as a reference for Professionals working in the industry. Among its strengths are its concise, clear explanations of Fortran Syntax and Programming Procedures, the inclusion of a wealth of examples and exercises to help students grasp difficult concepts, and its explanations about how to understand code written for older versions of Fortran. *Scientific Python* is taught from scratch in this book via copious, downloadable, useful and adaptable code snippets. Everything the working scientist needs to know is covered, quickly providing researchers and research students with the skills to start using Python effectively. These popular and proven workbooks help students build confidence before attempting end-of-chapter problems. They provide short exercises that focus on developing a particular skill, mostly requiring students to draw or interpret sketches and graphs. In this comprehensive text on matrix theory and its applications, Graham explores the underlying principles as well as the numerous applications of the various concepts presented. Includes numerous problems with solutions. 1979 edition. *Electronics for Scientists* provides comprehensive coverage of a vital part of modern science courses. This book will give students and experimentalists a thorough knowledge of the concepts involved and their applications to practical situations. The text is graded into three parts, and is illustrated with line diagrams, plots from circuit simulators and photographs from oscilloscope traces. Part One assumes very little prior knowledge of electronics and provides a foundation for the book. Recognising that in the fast-moving electronic instrumentation industry, most instruments have a market lifetime of only a few years, in Parts 2 and 3, descriptions of specific circuits are deliberately avoided. Instead the 'electronic building blocks' approach is adopted, so that any instrument, old or brand new, can be analysed on a functional basis. *Electronics for Scientists* will be essential reading for all undergraduate science students and experimentalists using commercially available electronic instruments or innovating their own instruments for specific applications. For the first time, this book compiles original documents from Science for the People, the most important radical science movement in U.S. history. Between 1969 and 1989, Science for the People mobilized American scientists, teachers, and students to practice a socially and economically just science, rather than one that served militarism and corporate profits. Through research, writing, protest, and organizing, members sought to demystify scientific knowledge and embolden "the people" to take science and technology into their own hands. The movement's numerous publications were crucial to the formation of science and technology studies, challenging mainstream understandings of science as "neutral" and instead showing it as inherently political. Its members, some at prominent universities, became models for politically engaged science and scholarship by using their knowledge to challenge, rather than

uphold, the social, political, and economic status quo. Highlighting Science for the People's activism and intellectual interventions in a range of areas -- including militarism, race, gender, medicine, agriculture, energy, and global affairs -- this volume offers vital contributions to today's debates on science, justice, democracy, sustainability, and political power. This book, by a scientist, is not a textbook on English grammar: nor is it just one more book on how to write a technical report, or a thesis, or a paper for publication. It is about all the ways in which writing is important to scientists and engineers in helping them to remember to observe, to think, to plan, to organize and to communicate. Data Analysis for Scientists and Engineers is a modern, graduate-level text on data analysis techniques for physical science and engineering students as well as working scientists and engineers. Edward Robinson emphasizes the principles behind various techniques so that practitioners can adapt them to their own problems, or develop new techniques when necessary. Robinson divides the book into three sections. The first section covers basic concepts in probability and includes a chapter on Monte Carlo methods with an extended discussion of Markov chain Monte Carlo sampling. The second section introduces statistics and then develops tools for fitting models to data, comparing and contrasting techniques from both frequentist and Bayesian perspectives. The final section is devoted to methods for analyzing sequences of data, such as correlation functions, periodograms, and image reconstruction. While it goes beyond elementary statistics, the text is self-contained and accessible to readers from a wide variety of backgrounds. Specialized mathematical topics are included in an appendix. Based on a graduate course on data analysis that the author has taught for many years, and couched in the looser, workaday language of scientists and engineers who wrestle directly with data, this book is ideal for courses on data analysis and a valuable resource for students, instructors, and practitioners in the physical sciences and engineering. In-depth discussion of data analysis for scientists and engineers Coverage of both frequentist and Bayesian approaches to data analysis Extensive look at analysis techniques for time-series data and images Detailed exploration of linear and nonlinear modeling of data Emphasis on error analysis Instructor's manual (available only to professors) Applied Calculus for Scientists and Engineers is an invitation to an intellectual journey into a discipline that has profoundly influenced the development of Western Civilization for more than three hundred years. The author takes a functional pedagogical approach through the use of a dialogue-based writing style that is uniquely suited to make transparent the essential problem-solving strategies. As the text follows Simplicio and Sophie in their struggle to understand the teacher's explanations, students will find that many of their own difficulties are adequately addressed and elegantly resolved. The text is centered on the idea that good teaching must bring knowledge to life. True to this premise, the author has taken great care to present all mathematical subjects within the context of stimulating applications that cover a wide range of topics in science and engineering. Also included are engaging discussions of the historical and philosophical background that gave the discipline of calculus its present shape. Indeed, it is the central focus on applications combined with a commitment to very high standards of expository writing that sets this book apart from the competition. Volume 1 covers differentiation, integration, special functions, methods of integration, Taylor approximation, and differential equations, and Volume 2 covers linear algebra, systems of differential equations, and vector calculus. This book constitutes the outcome of an international conference held at the Otto-Mobes-Volkswirtschaftsschule, Graz-Stifting(Austria), from June 16 to 22, 1974. The conference was initiated by a project group working on determinants and controls of social science development at the Institute for Advanced Studies and Scientific Research in Vienna and organized by the editors of this volume. It was held under the auspices of the Austrian Ministry of Science and Research. The main topics of the conference were those at the forefront of the 'state of argumentation' (to borrow from one of our contributors) in philosophy and sociology of science ever since the controversy between Thomas S. Kuhn and Sir Karl R. Popper has sharpened our awareness for the methodological and substantial presuppositions involved with questions of growth and development in science. Let us give two examples of those topics. The borderline between sociology of science and philosophy of science has become more and more unclear; while the work of at least some philosophers of science comes to have an empirical flavour, sociologists of science are increasingly apt to include logical and methodological components of the research process as their objects of examination. Papers included in this volume testify to both tendencies. This book, based on lectures presented in courses on algebraic geometry taught by the author at Purdue University, is intended for engineers and scientists (especially computer scientists), as well as graduate students and advanced undergraduates in mathematics. In addition to providing a concrete or algorithmic approach to algebraic geometry, the author also attempts to motivate and explain its link to more modern algebraic geometry based on abstract algebra. The book covers various topics in the theory of algebraic curves and surfaces, such as rational and polynomial parametrization, functions and differentials on a curve, branches and valuations, and resolution of singularities. The emphasis is on presenting heuristic ideas and suggestive arguments rather than formal proofs. Readers will gain new insight into the subject of algebraic geometry in a way that should increase appreciation of modern treatments of the subject, as well as enhance its utility in applications in science and industry. Outstanding undergraduate text provides a thorough understanding of fundamentals and creates the basis for higher-level courses. Numerous examples and extensive exercise sections of varying difficulty, plus answers to selected exercises. 1990 edition. Cengage Learning is pleased to announce the publication of Debora Katz's ground-breaking calculus-based physics program, PHYSICS FOR SCIENTISTS AND ENGINEERS: FOUNDATIONS AND CONNECTIONS. The author's one-of-a-kind case study approach enables students to connect mathematical formalism and physics concepts in a modern, interactive way. By leveraging physics education research (PER) best practices and her extensive classroom experience, Debora Katz addresses the areas students struggle with the most: linking physics to the real world, overcoming common preconceptions, and connecting the concept being taught and the mathematical steps to follow. How Dr. Katz deals with these challenges—with case studies, student dialogues, and detailed two-column examples—distinguishes this text from any other on the market and will assist you in taking your students “beyond the quantitative.” Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Completely updated guide for students, scientists and engineers who want to use Microsoft Excel 2013 to its full potential. Electronic spreadsheet analysis has become part of the everyday work of researchers in all areas of engineering and science. Microsoft Excel, as the industry standard spreadsheet, has a range of scientific functions that can be utilized for the modeling, analysis and presentation of quantitative data. This text provides a straightforward guide to using these functions of Microsoft Excel, guiding the reader from basic principles through to more complicated areas such as formulae, charts, curve-fitting, equation solving, integration, macros, statistical functions, and presenting quantitative data. Content written specifically for the requirements of science and engineering students and professionals working with Microsoft Excel, brought fully up to date with the new Microsoft Office release of Excel 2013. Features of Excel 2013 are illustrated through a wide variety of examples based in technical contexts, demonstrating the use of the program for analysis and presentation of experimental results. New to this edition: The Backstage is introduced (a new Office 2013 feature); all the 'external' operations like Save, Print etc. are now in one place The chapter on charting is totally revised and updated – Excel 2013 differs greatly from earlier versions Includes many new end-of-chapter problems Most chapters have been edited to improve readability The Nobel Prize is by far the highest recognition a scientist may receive and the only one with which the general public is familiar. Its prestige has reached improbable heights. At the same time a lot of myth surrounds the Nobel Prize, and this is compounded by the fact that people tend to view scientists with some bewilderment. This book introduces the process of selection of the laureates, discusses the ingredients for scientific discovery and for getting recognition. It reviews the decisive moments of scientific careers en route to the Nobel Prize, points to characteristic features of the laureates, the importance of mentors and venues in scientific careers and other components of success. It also covers some discoverers and discoveries for whom and for which the Nobel Prize never materialized. Whereas there is no general recipe for receiving the Nobel Prize, there are common features of successful scientific careers. The book reveals some information about the scientists' lives and careers that may guide other scientists in increasing their chances of becoming more effective and better recognized players - although it is not expected to help anyone to receive the Nobel Prize! For the general reader The Road to Stockholm reveals the human face of scientists and the human side of their endeavours. The Nobel Prize has served as inspiration for scientists and the general public for a hundred years: this book discusses its problems and celebrates its triumphs. What clutter-busting need was behind the invention of the World Wide Web? Which stain-fighting chemical got its start when a lab assistant dropped a beaker on a lab floor? In S is for Scientists: A Discovery Alphabet, the origins behind some of the most important scientific discoveries are explored. Budding young scientists will learn what Galileo witnessed in a church that led to his theory of measurement; how biologist Rachel Carson's book, Silent Spring, helped to spur the first call to action in the environmental movement; and why Ivan Pavlov's study of a drooling dog laid the foundations for a new branch of psychology. From discoveries that fundamentally changed scientific methods to everyday inventions that are now taken for granted, S is for Scientists sheds light on the events and people who have shaped our lives today. A former teacher, Larry Verstraete now spends his time writing, visiting schools and libraries, and presenting at conferences and festivals. S is for Scientists: A Discovery Alphabet is his second picture book with Sleeping Bear Press. He lives in Winnipeg. David Geister's fascination with American history is celebrated in his work, and his paintings have been featured in The Saturday Evening Post. Dave's books for Sleeping Bear Press include B is for Battle Cry: A Civil War Alphabet and Riding to Washington. He lives in Minneapolis, Minnesota. "This work strikes a balance between the pure functional aspects of F# and the object-oriented and imperative features that make it so useful in practice, enable .NET integration, and make large-scale data processing possible." —Thore Graepel, PhD,

Researcher, Microsoft Research Ltd. Over the next five years, F# is expected to become one of the world's most popular functional programming languages for scientists of all disciplines working on the Windows platform. F# is free and, unlike MATLAB® and other software with numerical/scientific origins, is a full-fledged programming language. Developed in consultation with Don Syme of Microsoft Research Ltd.—who wrote the language—F# for Scientists explains and demonstrates the powerful features of this important new programming language. The book assumes no prior experience and guides the reader from the basics of computer programming to the implementation of state-of-the-art algorithms. F# for Scientists begins with coverage of introductory material in the areas of functional programming, .NET, and scientific computing, and goes on to explore: Program structure Optimization Data structures Libraries Numerical analysis Databases Input and output Interoperability Visualization Screenshots of development using Visual Studio are used to illustrate compilation, debugging, and interactive use, while complete examples of a few whole programs are included to give readers a complete view of F#'s capabilities. Written in a clear and concise style, F# for Scientists is well suited for researchers, scientists, and developers who want to program under the Windows platform. It also serves as an ideal supplemental text for advanced undergraduate and graduate students with a background in science or engineering. ISBN 0321516745 9780321516749

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