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*One day Sophie comes home
from school to find two questions*

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in her mail: "Who are you?" and "Where does the world come from?" Before she knows it she is enrolled in a correspondence course with a mysterious philosopher. Thus begins Jostein Gaarder's unique novel, which is

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not only a mystery, but also a complete and entertaining history of philosophy.

Although it is customary to credit Freud's self-analysis, it may be more accurate, Alexander Welsh argues, to say that

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psychoanalysis began when The Interpretation of Dreams was published in the last weeks of the nineteenth century. Only by going public with his theory--that dreams manifest hidden wishes--did Freud establish a

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position to defend and embark upon a career. That position and career have been among the most influential in this century. In August 1899, Freud wrote to Wilhelm Fliess of the dream book in terms reminiscent of

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Dante's Inferno. Beginning from a dark wood, this modern journey features "a concealed pass though which I lead the reader--my specimen dream with its peculiarities, details, indiscretions, bad jokes--and

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*then suddenly the high ground
and the view and the question,
Which way do you wish to go
now?" Physician that he is,
Freud appoints himself guide
rather than hero, yet the way
"you" wish to go is very much his*

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prescribed way. In Welsh's book, readers are invited on Freud's journey, to pause at each concealed pass in his seminal work and ask where the guide is taking them and why. Along the way, Welsh shows how Freud's

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arbitrary turnings are themselves wishful, intended to persuade by pleasing the reader and author alike; that his interest in secrets and his self-proclaimed modest ambition are products of their time; and that the book may best

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be read as a romance or serial comedy. "Some of the humor throughout," Welsh notes, "can only be understood as a particular kind of fine performance." Welsh offers the first critical overview of the

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argument in Freud's masterpiece and of the author who presents himself as guide.

Math in Society is a survey of contemporary mathematical topics, appropriate for a college-level topics course for liberal arts

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major, or as a general quantitative reasoning course. This book is an open textbook; it can be read free online at <http://www.opentextbookstore.com/mathinsociety/>. Editable versions of the chapters

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are available as well.

An analysis of the invasion of our personal lives by logo-promoting, powerful corporations combines muckraking journalism with contemporary memoir to discuss current consumer culture

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The Shape of Inner Space

But Need to Know for Graduate School

The Story of a Mathematical

Circle for Preschoolers

Taking Aim at the Brand Bullies

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Math in Society

This book provides eloquent support for the idea that spontaneous neuron activity, far from being mere noise, is actually the source of our

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cognitive abilities. In a sequence of "cycles," György Buzsáki guides the reader from the physics of oscillations through neuronal assembly organization to complex

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cognitive processing and memory storage. His clear, fluid writing-accessible to any reader with some scientific knowledge-is supplemented by extensive footnotes and references

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that make it just as gratifying and instructive a read for the specialist. The coherent view of a single author who has been at the forefront of research in this exciting

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field, this volume is essential reading for anyone interested in our rapidly evolving understanding of the brain.

On October 23, 1852,

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Professor Augustus De Morgan wrote a letter to a colleague, unaware that he was launching one of the most famous mathematical conundrums in history--one that would confound

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thousands of puzzlers for more than a century. This is the amazing story of how the map problem was solved. The problem posed in the letter came from a former student: What is

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the least possible number of colors needed to fill in any map (real or invented) so that neighboring counties are always colored differently? This

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deceptively simple question was of minimal interest to cartographers, who saw little need to limit how many colors they used. But the problem set off a frenzy among

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professional mathematicians and amateur problem solvers, among them Lewis Carroll, an astronomer, a botanist, an obsessive golfer, the Bishop of London, a man

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who set his watch only once a year, a California traffic cop, and a bridegroom who spent his honeymoon coloring maps. In their pursuit of the solution, mathematicians

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Painted maps on doughnuts and horseshoes and played with patterned soccer balls and the great rhombicuboctahedron. It would be more than one hundred years (and

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countless colored maps) later before the result was finally established. Even then, difficult questions remained, and the intricate solution--which involved

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no fewer than 1,200 hours of computer time--was greeted with as much dismay as enthusiasm. Providing a clear and elegant explanation of the problem and the proof,

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Robin Wilson tells how a seemingly innocuous question baffled great minds and stimulated exciting mathematics with far-flung applications. This is the entertaining

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story of those who failed to prove, and those who ultimately did prove, that four colors do indeed suffice to color any map. Logic concepts are more mainstream than you may

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realize. There's logic every place you look and in almost everything you do, from deciding which shirt to buy to asking your boss for a raise, and even to watching

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television, where themes of such shows as CSI and Numbers incorporate a variety of logistical studies. Logic For Dummies explains a vast array of logical concepts and

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processes in easy-to-understand language that make everything clear to you, whether you're a college student or a student of life. You'll find out about: Formal

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Logic Syllogisms

Constructing proofs and refutations Propositional and predicate logic Modal and fuzzy logic Symbolic logic Deductive and inductive reasoning Logic

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For Dummies tracks an introductory logic course at the college level. Concrete, real-world examples help you understand each concept you encounter, while fully

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worked out proofs and fun logic problems encourage you students to apply what you've learned.

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powerful vocabulary expands your world of opportunity. Building your word power will help you write more effectively, communicate clearly, score higher on standardized

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learn their meanings and how to use them correctly. This knowledge will stay with you longer and be easier to recall—and it doesn't take any longer than less-effective

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memorization. How does it work? This book uses a simple three-part system: 1. Patterns: Words aren't arranged randomly or alphabetically, but in similar groups based on

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meaning and origin that make words easier to remember over time. 2. Deeper Meanings, More Examples: Full explanations—not just brief definitions—of what

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the words mean, plus multiple examples of the words in sentences. 3.

Quick Activities: Frequent short quizzes help you test how much you've learned, while helping

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The book offers an invitation to this broad and fast-developing area. It is not an extensive encyclopedia of known results, but rather a first introduction to the subject, allowing the reader to enter into more advanced topics.

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It was designed as the next step after linear algebra and well before abstract algebraic geometry. The book presents both classical topics—like the Nullstellensatz and primary decomposition—and more modern

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ones—like tropical geometry and semidefinite programming. The focus lies on interactions and applications. Each of the thirteen chapters introduces fundamental concepts. The book may be used for a one-semester course, and the

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over 200 exercises will help the readers to deepen their understanding of the subject.

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and mathematical life by means of historically important mathematical vignettes. It will also serve to help prospective teachers become more familiar with important ideas of in the history of mathematicsboth

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mathematicians treated here were complex individuals who led colorful and fascinating lives, and did fascinating mathematics. They remain interesting to us as people and as scientists. This history of mathematics is also an

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opportunity to have some fun because the focus in this text is also on the practical getting involved with the mathematics and solving problems. This book is unabashedly mathematical. In the course of reading this book, the

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neophyte will become involved with mathematics by working on the same problems that, for instance, Zeno and Pythagoras and Descartes and Fermat and Riemann worked on. This is a book to be read, therefore, with pencil

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and paper in hand, and a calculator or computer close by. All will want to experiment; to try things; and become a part of the mathematical process.

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reading for all students with a quantitative aptitude. It provides fascinating examples of the dynamic career opportunities potentially open to anyone with the skills and passion for quantitative analysis." --Roy D.

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Henriksson, Chief Investment Officer, Advanced Portfolio Management "Quants"--those who design and implement mathematical models for the pricing of derivatives, assessment of risk, or prediction of market

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movements--are the backbone of today's investment industry. As the greater volatility of current financial markets has driven investors to seek shelter from increasing uncertainty, the quant revolution has given people the

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opportunity to avoid unwanted financial risk by literally trading it away, or more specifically, paying someone else to take on the unwanted risk. How I Became a Quant reveals the faces behind the quant revolution, offering

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you?the?chance to learn firsthand what it's like to be a?quant today. In this fascinating collection of Wall Street war stories, more than two dozen quants detail their roots, roles, and contributions, explaining what they do and how

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Equations

Mathematics for Computer

Science

Foliations and the Geometry of
3-Manifolds

Felix Klein, one of the great nineteenth-century geometers, rediscovered in

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mathematics an idea from Eastern philosophy: the heaven of Indra contained a net of pearls, each of which was reflected in its neighbour, so that the whole Universe was mirrored in each pearl. Klein studied infinitely repeated reflections and was led to forms with multiple co-existing

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symmetries. For a century these ideas barely existed outside the imagination of mathematicians. However in the 1980s the authors embarked on the first computer exploration of Klein's vision, and in doing so found many further extraordinary images. Join the authors on the path from basic mathematical

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ideas to the simple algorithms that create the delicate fractal filigrees, most of which have never appeared in print before. Beginners can follow the step-by-step instructions for writing programs that generate the images. Others can see how the images relate to ideas at the forefront of research.

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String theory says we live in a ten-dimensional universe, but that only four are accessible to our everyday senses. According to theorists, the missing six are curled up in bizarre structures known as Calabi-Yau manifolds. In *The Shape of Inner Space*, Shing-Tung Yau, the man who mathematically proved

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that these manifolds exist, argues that not only is geometry fundamental to string theory, it is also fundamental to the very nature of our universe. Time and again, where Yau has gone, physics has followed. Now for the first time, readers will follow Yau's penetrating thinking on where we've been, and

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where mathematics will take us next. A fascinating exploration of a world we are only just beginning to grasp, *The Shape of Inner Space* will change the way we consider the universe on both its grandest and smallest scales.

"Fascinating. Doidge's book is a remarkable and hopeful portrait of the

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endless adaptability of the human brain.”—Oliver Sacks, MD, author of *The Man Who Mistook His Wife for a Hat* What is neuroplasticity? Is it possible to change your brain? Norman Doidge’s inspiring guide to the new brain science explains all of this and more An astonishing new science called

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neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and

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the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging

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brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love,

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sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential. This classic introduction to probability theory for beginning graduate students covers laws of large numbers, central

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limit theorems, random walks, martingales, Markov chains, ergodic theorems, and Brownian motion. It is a comprehensive treatment concentrating on the results that are the most useful for applications. Its philosophy is that the best way to learn probability is to see it in action, so there are 200

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examples and 450 problems. The fourth edition begins with a short chapter on measure theory to orient readers new to the subject.

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fascinating area of probability theory. It starts on a fast track with the treatment of probability theory and stochastic processes by providing short proofs. The last chapter is unique as it features a wide range of applications in other

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fields like Vlasov dynamics of fluids, statistics of circular data, singular continuous random variables, Diophantine equations, percolation theory, random Schrödinger operators, spectral graph theory, integral geometry, computer vision,

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and processes with high risk. Many of these areas are under active investigation and this volume is highly suited for ambitious undergraduate students, graduate students and researchers.

Are all film stars linked to Kevin

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Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks

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that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and

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intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the

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links that connect us, and the ways that our decisions can have consequences for others.

This "worthy successor to Strunk and White" now features an expanded style guide covering a wider range of citation cases,

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As anyone who has taught or raised young children knows, mathematical education for little kids is a real mystery. What are they capable of? What should they learn first? How hard should they work? Should they even "work" at

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all? Should we push them, or just let them be? There are no correct answers to these questions, and the author deals with them in classic math-circle style: he doesn't ask and then answer a question, but shows us a problem--be it

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mathematical or pedagogical--and describes to us what happened. His book is a narrative about what he did, what he tried, what worked, what failed, but most important, what the kids experienced. This book does not purport to show you

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how to create precocious high achievers. It is just one person's story about things he tried with a half-dozen young children.

Mathematicians, psychologists, educators, parents, and everybody interested in the intellectual

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development in young children will find this book to be an invaluable, inspiring resource. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS

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are publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession. Titles in this series are co-published with the Mathematical Sciences Research

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coding scheme to employ, how to
design a new scheme, or how to

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improve an existing system? This summary of the state-of-the-art in iterative coding makes this decision more straightforward. With emphasis on the underlying theory, techniques to analyse and design practical iterative coding systems

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are presented. Using Gallager's original ensemble of LDPC codes, the basic concepts are extended for several general codes, including the practically important class of turbo codes. The simplicity of the binary erasure channel is exploited to

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develop analytical techniques and intuition, which are then applied to general channel models. A chapter on factor graphs helps to unify the important topics of information theory, coding and communication theory. Covering the most recent

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advances, this text is ideal for graduate students in electrical engineering and computer science, and practitioners. Additional resources, including instructor's solutions and figures, available online: www.cambridge.org/978052

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1852296.

0. 0 Psychology versus Complex Systems Science Over the last century, psychology has become much less of an art and much more of a science. Philosophical speculation is out; data collection is

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in. In many ways this has been a very positive trend. Cognitive science (Mandler, 1985) has given us scientific analyses of a variety of intelligent behaviors: short-term memory, language processing, vision processing, etc. And thanks to

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molecular psychology (Franklin, 1985), we now have a rudimentary understanding of the chemical processes underlying personality and mental illness. However, there is a growing feeling-particularly among non-psychologists (see e. g.

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Sommerhoff, 1990) - that, with the new emphasis on data collection, something important has been lost. Very little attention is paid to the question of how it all fits together. The early psychologists, and the classical philosophers of mind, were

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concerned with the general nature of mentality as much as with the mechanisms underlying specific phenomena. But the new, scientific psychology has made disappointingly little progress toward the resolution of these more

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general questions. One way to deal with this complaint is to dismiss the questions themselves. After all, one might argue, a scientific psychology cannot be expected to deal with fuzzy philosophical questions that probably have little empirical signifi

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cance. It is interesting that behaviorists and cognitive scientists tend to be in agreement regarding the question of the overall structure of the mind.

A Quick Steep Climb Up Lienar Algebra - and its companion site

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"allthemath" - are completely-and-forever-free-and-open-source educational materials dedicated to the mathematics that budding computer science practitioners actually need to know. They feature the fun and addictive teaching of

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could unify three of the four fundamental forces. He also includes a concise review of the linear algebra needed for group theory, making the book ideal for self-study. Provides physicists with a modern and accessible

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introduction to group theory Covers applications to various areas of physics, including field theory, particle physics, relativity, and much more Topics include finite group and character tables; real, pseudoreal, and complex

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dimensions. Significant themes returned to throughout the text include the importance of geometry, especially the hyperbolic geometry of surfaces, the

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importance of
monotonicity, especially
in 1-dimensional and co-
dimensional dynamics,
and combinatorial
approximation, using
finite combinatorial

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objects such as train-tracks, branched surfaces and hierarchies to carry more complicated continuous objects.

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elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods.

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Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic

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notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered,

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such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

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a gap in the literature on general relativity by providing the advanced student with practical tools for the computation of many physically interesting

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quantities. The context is provided by the mathematical theory of black holes, one of the most elegant, successful, and relevant applications of general

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relativity. Among the topics discussed are congruencies of timelike and null geodesics, the embedding of spacelike, timelike and null hypersurfaces in

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spacetime, and the Lagrangian and Hamiltonian formulations of general relativity. Although the book is self-contained, it is not meant to serve as an

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introduction to general relativity. Instead, it is meant to help the reader acquire advanced skills and become a competent researcher in relativity and

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The primary readership
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seasoned researchers working in this field. An original, endlessly thought-provoking, and controversial look at the nature of consciousness and

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identity argues that the key to understanding selves and consciousness is the "strange loop," a special kind of abstract feedback loop inhabiting our brains.

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Indra's Pearls
The Algorithm Design
Manual
Sophie's World
A New Mathematical
Theory of Mind
pt. 1. Notes

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Proof and Disproof in
Formal Logic

Proof and Disproof in Formal Logic is a lively and entertaining introduction to formal logic providing an excellent insight into how a

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simple logic works. Formal logic allows you to check a logical claim without considering what the claim means. This highly abstracted idea is an essential and practical part

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of computer science. The idea of a formal system—a collection of rules and axioms which define a universe of logical proofs—is what gives us programming languages and modern-day

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programming. This book concentrates on using logic as a tool: making and using formal proofs and disproofs of particular logical claims. The logic it uses—natural deduction—is very small and

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very simple; working with it helps you see how large mathematical universes can be built on small foundations. The book is divided into four parts: · Part I "Basics" gives an

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introduction to formal logic with a short history of logic and explanations of some technical words. · Part II "Formal syntactic proof" show you how to do calculations in a formal

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system where you are guided by shapes and never need to think about meaning. Your experiments are aided by Jape, which can operate as both inquisitor and oracle. • Part III "Formal

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semantic disproof" shows you how to construct mathematical counterexamples to show that proof is impossible. Jape can check the counterexamples you build. •

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