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spivak s celebrated calculus is ideal for mathematics majors seeking an alternative to doorstop textbooks and formidable introductions to real analysis

this little book is especially concerned with those portions of advanced calculus in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level the approach taken here uses elementary versions of modern methods found in sophisticated mathematics the formal prerequisites include only a term of linear algebra a nodding acquaintance with the notation of set theory and a respectable first year calculus course one which at least mentions the least upper bound sup and greatest lower bound inf of a set of real numbers beyond this a certain perhaps latent rapport with abstract mathematics will be found almost essential

this book is for high school and college teachers who want to know how they can use the history of mathematics as a pedagogical tool to help their students construct their own knowledge of mathematics often a historical development of a particular topic is the best way to present a mathematical topic but teachers may not have the time to do the research needed to present the material this book provides its readers with historical ideas and insights which can be immediately applied in the classroom the book is divided into two sections the first on the use of history in high school mathematics and the second on its use in university mathematics the articles are diverse covering fields such as trigonometry mathematical modeling calculus linear algebra vector analysis and celestial mechanics also included are articles of a somewhat philosophical nature which give general ideas on why history should be used in teaching and how it can be used

in various special kinds of courses each article contains a bibliography to guide the reader to further reading on the subject

differential geometry is a subject related to many fields in mathematics and the sciences the authors of this book provide a vertically integrated introduction to differential geometry and geometric analysis the material is presented in three distinct parts an introduction to geometry via submanifolds of euclidean space a first course in riemannian geometry and a graduate special topics course in geometric analysis and it contains more than enough content to serve as a good textbook for a course in any of these three topics the reader will learn about the classical theory of submanifolds smooth manifolds riemannian comparison geometry bundles connections and curvature the chern gauss bonnet formula harmonic functions eigenfunctions and eigenvalues on riemannian manifolds minimal surfaces the curve shortening flow and the ricci flow on surfaces this will provide a pathway to further topics in geometric analysis such as ricci flow used by hamilton and perelman to solve the poincar and thurston geometrization conjectures mean curvature flow and minimal submanifolds the book is primarily aimed at graduate students in geometric analysis but it will also be of interest to postdoctoral researchers and established mathematicians looking for a refresher or deeper exploration of the topic

collecting data is relatively easy but turning raw information into something useful requires that you know how to extract precisely what you need with this insightful book intermediate to experienced programmers interested in data analysis will learn techniques for working with data in a business environment you ll learn how to look at data to discover what it contains how to capture those ideas in conceptual models and then feed your understanding back into the organization through business plans metrics dashboards and other applications along the way you ll experiment with concepts through hands on workshops at the end of each chapter above all you ll learn how to think about the results you want to achieve rather than rely on tools to think for you use graphics to describe data with one two or dozens of variables develop conceptual models using back of the envelope calculations as well asscaling and probability arguments mine data with computationally intensive methods such as simulation and clustering make your conclusions understandable through reports dashboards and other metrics programs understand financial calculations including the time value of money use dimensionality reduction techniques or predictive analytics to conquer challenging data analysis situations become familiar with different open source programming environments for data analysis finally a concise reference for understanding how to conquer piles of data austin king senior developer mozilla an indispensable text for aspiring data scientists michael e driscoll ceo founder dataspora

how to be a quantitative ecologist the a to r of green mathematics and statistics ecological research is becoming increasingly quantitative yet students often opt out of courses in mathematics and statistics unwittingly limiting their ability to carry out research in the future this textbook provides a practical introduction to quantitative ecology for students and practitioners who have realised that they need this opportunity the text is addressed to readers who haven t used mathematics since school who were perhaps more confused than enlightened by their undergraduate lectures in statistics and who have never used a computer for much more than word processing and data entry from this starting point it slowly but surely instils an understanding of mathematics statistics and programming sufficient for initiating research in ecology the book s practical value is enhanced by extensive use of biological examples and the computer language r for graphics programming and data analysis key features provides a complete introduction to mathematics statistics and computing for ecologists presents a wealth of ecological examples demonstrating the applied relevance of abstract mathematical concepts showing how a little technique can go a long way in answering interesting ecological questions covers elementary topics including the rules of algebra logarithms geometry calculus descriptive statistics probability hypothesis testing and linear regression explores more advanced topics including fractals non linear dynamical systems likelihood and bayesian estimation generalised linear mixed and additive models and multivariate statistics r boxes

provide step by step recipes for implementing the graphical and numerical techniques outlined in each section how to be a quantitative ecologist provides a comprehensive introduction to mathematics statistics and computing and is the ideal textbook for late undergraduate and postgraduate courses in environmental biology with a book like this there is no excuse for people to be afraid of maths and to be ignorant of what it can do professor tim benton faculty of biological sciences university of leeds uk

the hitchhiker s guide to calculus begins with a rapid view of lines and slope spivak then takes up non linear functions and trigonometric functions he places the magnifying glass on curves in the next chapter and effortlessly leads the reader to the idea of derivative in the next chapter he tackles speed and velocity followed by the derivative of sine maxima and minima are next rolle s theorem and the mvt form the core of chapter 11 watching experts at play the hitchhiker s guide to calculus closes with a chapter on the integral the fundamental theorem and applications of the integral

table of contents 1 introduction why textbooks matter how this list was curated who this book is for 2 the top 100 textbooks science mathematics 20 books foundational and advanced books in physics chemistry biology and math engineering technology 20 books textbooks on mechanical electrical civil and computer engineering medicine health sciences 20 books books for medical students nursing and healthcare professionals business economics 20 books textbooks on finance management marketing and entrepreneurship humanities social sciences 20 books books covering history psychology sociology and literature 3 honorable mentions emerging books books that almost made the list recent bestsellers in academic publishing 4 conclusion recommendations the importance of academic learning suggested reading paths based on interests e g best textbooks for engineering students must reads for medical school encouragement to keep learning

the hitchhiker s guide to calculus begins with a rapid view of lines and slope spivak then takes up non linear functions and trigonometric functions he places the magnifying glass on curves in the next chapter and effortlessly leads the reader to the idea of derivative in the next chapter he tackles speed and velocity followed by the derivative of sine maxima and minima are next rolle s theorem and the mvt form the core of chapter 11 watching experts at play the hitchhiker s guide to calculus closes with a chapter on the integral the fundamental theorem and applications of the integral

this textbook provides an easy to understand introduction to the mathematical concepts and algorithms at the foundation of data science it covers essential parts of data organization descriptive and inferential statistics probability theory and machine learning these topics are presented in a clear and mathematical sound way to help readers gain a deep and fundamental understanding numerous application examples based on real data are included the book is well suited for lecturers and students at technical universities and offers a good introduction and overview for people who are new to the subject basic mathematical knowledge of calculus and linear algebra is required

this volume presents research and expository papers presented at the third and fifth meetings of the council for african american researchers in the mathematical sciences caarms the caarms is a group dedicated to organizing an annual conference that showcases the current research primarily but not exclusively of african americans in the mathematical sciences including mathematics operations research statistics and computer science held annually since 1995 significant numbers of researchers have presented their current work in hour long technical presentations and graduate students have presented their work in organized poster sessions the events create an ideal forum for mentoring and networking where attendees can meet researchers and graduate students interested in the same fields for volumes based on previous caarms proceedings see african americans in mathematics ii volume 252 in the ams series contemporary mathematics and

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like the previous editions this new edition will be well received by students of mathematics statistics economics and a wide variety of disciplines that require a solid understanding of probability theory

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