

Industrial and Applied Mathematics

Martin Brokate
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Calculus for Scientists and Engineers



Springer

Calculus For Scientists And Engineers

K. D. Joshi



Calculus For Scientists And Engineers:

Applied Calculus for Scientists and Engineers Frank Blume, 2005 *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 *Calculus for Scientists and Engineers* Martin Brokate, Pammy Manchanda, Abul Hasan Siddiqi, 2019-08-03 This book presents the basic concepts of calculus and its relevance to real world problems covering the standard topics in their conventional order By focusing on applications it allows readers to view mathematics in a practical and relevant setting Organized into 12 chapters this book includes numerous interesting relevant and up to date applications that are drawn from the fields of business economics social and behavioural sciences life sciences physical sciences and other fields of general interest It also features MATLAB which is used to solve a number of problems The book is ideal as a first course in calculus for mathematics and engineering students It is also useful for students of other sciences who are interested in learning calculus **Calculus for Scientists and Engineers** William L. Briggs, 2013-08-02 For a three semester or four quarter calculus course covering single variable and multivariable calculus for mathematics engineering and science majors Briggs Cochran is the most successful new calculus series published in the last two decades The authors decades of teaching experience resulted in a text that reflects how students generally use a textbook i e they start in the exercises and refer back to the narrative for help as needed The text therefore builds from a foundation of meticulously crafted exercise sets then draws students into the narrative through writing that reflects the voice of the instructor examples that are stepped out and thoughtfully annotated and figures that are designed to teach rather than simply supplement the narrative The authors appeal to students geometric intuition to introduce fundamental concepts laying a foundation for the rigorous development that follows *Calculus for Scientists and Engineers, Single Variable* William L. Briggs, Lyle Cochran, Bernard Gillett, Eric Schulz, 2012 Briggs Cochran is the most successful new calculus series published in the last two decades The authors years of teaching experience resulted in a text that reflects how students generally use a textbook they start in the exercises and refer back to the narrative for help as

needed The text therefore builds from a foundation of meticulously crafted exercise sets then draws students into the narrative through writing that reflects the voice of the instructor examples that are stepped out and thoughtfully annotated and figures that are designed to teach rather than simply supplement the narrative The authors appeal to students geometric intuition to introduce fundamental concepts laying a foundation for the rigorous development that follows This book covers chapters single variable topics chapters 1 12 of Calculus for Scientists and Engineers by the same authors KEY TOPICS Functions Limits Derivatives Applications of the Derivative Integration Applications of Integration Logarithmic and Exponential Functions Integration Techniques Differential Equations Sequences and Infinite Series Power Series Parametric and Polar Curves MARKET For all readers interested in calculus

Calculus for scientists and engineers William Briggs,2013 *Applied Calculus for Scientists and Engineers* Frank Blume,2014-09-02 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

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Calculus for Scientists and Engineers Lyle Cochran, William L. Briggs, Bernard Gillett, 2012-02-07
Drawing on their decades of teaching experience William Briggs and Lyle Cochran have created a calculus text that carries the teacher's voice beyond the classroom That voice evident in the narrative the figures and the questions interspersed in the narrative is a master teacher leading readers to deeper levels of understanding The authors appeal to readers geometric intuition to introduce fundamental concepts and lay the foundation for the more rigorous development that follows Comprehensive exercise sets have received praise for their creativity quality and scope This book is an expanded version of Calculus Early Transcendentals by the same authors with an entire chapter devoted to differential equations additional sections on other topics and additional exercises in most sections

Calculus for Scientists and Engineers Briggs, Cochran, Gillett, 2013-01-28
Calculus for Scientists and Engineers K. D. Joshi, 2002-01-01 This text attempts to lay emphasis on the whys of mathematics rather than on the hows The material covered is the same as is generally found in a first course in calculus namely the study of functions of a real variable but the approach is different A conscious effort is made to give strong motivation for the abstract concepts covered and thereby help a beginner overcome most of the aversion one has for abstraction For example instead of merely giving the epsilon delta definition of a limit a whole section is devoted to explain how the definition evolved and why it is a most natural formulation of the basic concept of a limit This should help the student get over the clumsiness of the definition which can be quite repulsive otherwise

Decoding **Calculus For Scientists And Engineers**: Revealing the Captivating Potential of Verbal Expression

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