

Calculus For Scientists And Engineers

Multivariable

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normal 0 false false false 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 covers chapters multivariable topics chapters 9 15 of calculus for scientists and engineers early transcendentals by the same authors key topics sequences and infinite series power series parametric and polar curves vectors and vector valued functions functions of several variables multiple integration vector calculus market for all readers interested in calculus

for a three semester or four quarter calculus course covering single variable and multivariable calculus for mathematics engineering and science majors briggs cochrane 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 to further support student learning the mymathlab course features an ebook with 700 interactive figures that can be manipulated to shed light on key concepts in addition the instructor s resource guide and test bank features quizzes test items lecture support guided projects and more 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 see the features section for more details

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designed for undergraduates in mathematics engineering the physical sciences and for practicing engineers the book focuses on practical applications of engineering and science used in industry it first presents the theoretical concepts followed by practical applications of vector calculus differentiation and integration matlab examples with source code appear on the companion files features includes numerous computer illustrations and tutorials using covers the major topics of vector geometry differentiation and integration in several variables

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