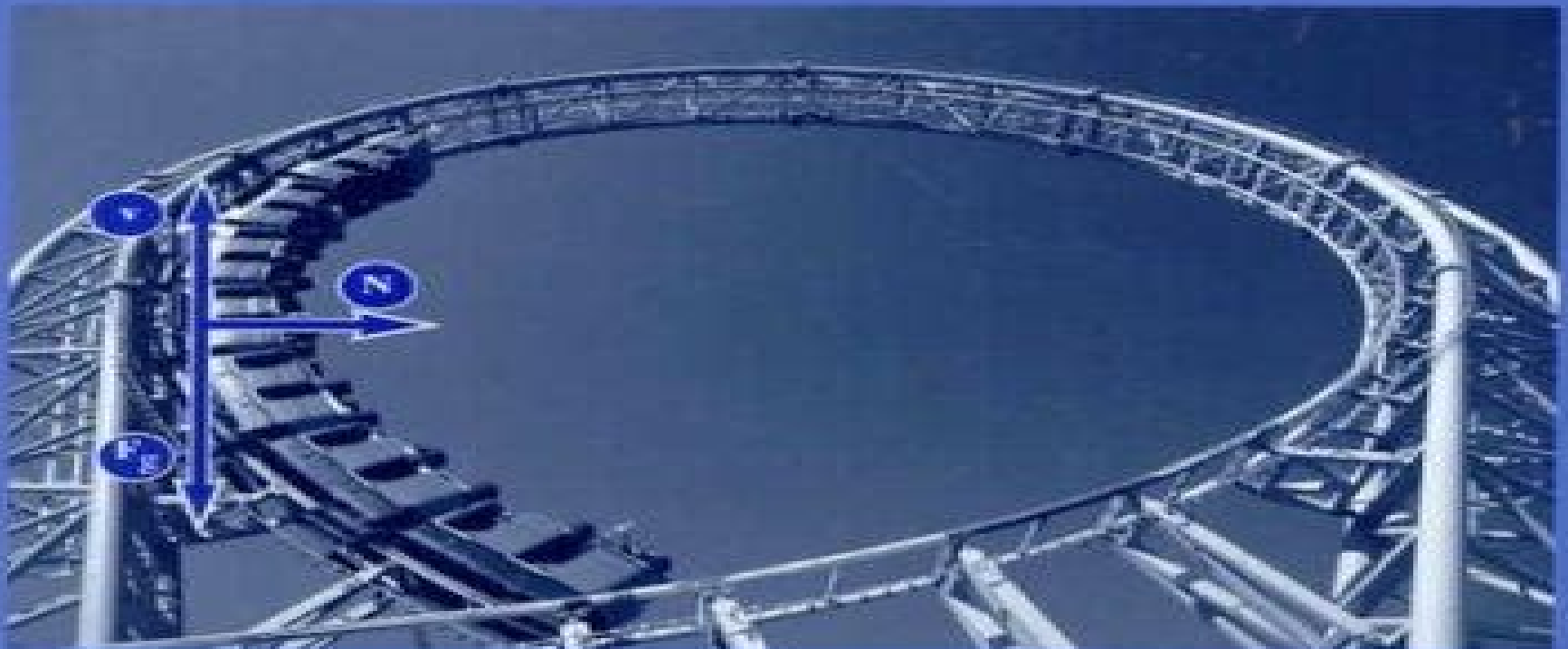


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for Engineering and the Sciences

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PRELIMINARY VERSION

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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

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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.

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Multivariable and Vector Calculus for Engineers and Scientists Sarhan M. Musa, 2018-09-30 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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