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Rigorous but not abstract, this intensive introductory treatment provides many of the advanced mathematical tools used in applications. It also supplies the theoretical background that will make most other parts of modern mathematical analysis accessible. Author Jacob Korevaar, Professor Emeritus at the University of Amsterdam, based this text on his intensive beginning graduate course for students in the physical sciences and applied mathematics. His introductory and relatively general material prepares students for such subjects as orthogonal series, linear operators in Hilbert space, integral equations, Sturm-Liouville problems, and partial differential equations.

The three-part treatment begins with relevant topics in linear algebra, with emphasis on the basic concepts of vector spaces and linear transformation. The second part introduces functional analysis and discusses distributions. The final section addresses integration theory, developing the properties of Lebesgue integral functions and related topics. A year of advanced calculus is the principal prerequisite for this text, in addition to some knowledge of elementary linear algebra and elementary differential equations.

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