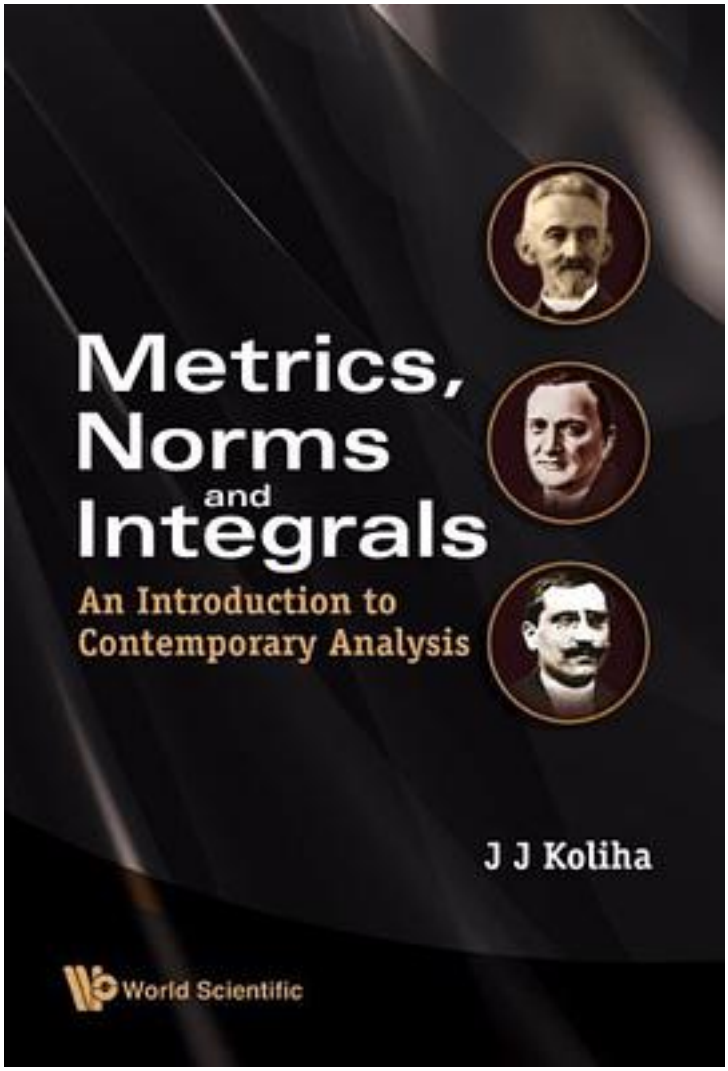
Metrics, Norms and Integrals



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based on the author s lectures given at the University of Melbourne for over two decades. It covers three main topics: metric and topological spaces, functional analysis, and the theory of the Lebesgue integral on measure spaces. This self-contained text contains a number of original presentations, including an early introduction of pseudometric spaces to motivate general topologies, an innovative introduction to the Lebesgue integral, and a discussion on the use of the Newton integral. It is thus a valuable book to inform and stimulate both undergraduate and graduate students.

Contents:Metrics and Topologies:; Metric Spaces; Convergence and Completeness; Continuity in Metric Spaces; Topological Spaces; Compactness; Connectedness; Linear Analysis:; Normed Spaces; Inner Product Spaces; Linear Operators and Functionals; Self-Adjoint Compact Operators; Introductory Functional Analysis; Integration:; Measure Spaces; The Abstract Lebesgue Integral; Integral on the Real Line; Construction of Measures; Product Measures. Integration on k ; Lebesgue Spaces.

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