

Intermediate Mathematical Analysis



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Reviews

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(Pinky O'Hara)

INTERMEDIATE MATHEMATICAL ANALYSIS



Narosa Publishing House, 2009. Softcover. Book Condition: New. Intermediate Mathematical Analysis aims at presenting advanced topics such as continuity, uniform continuity, tests of convergence of series, uniform convergence of series, power series, polynomial approximations and Fourier series in a more general setting. Metric and Normed Linear Spaces are introduced at an early stage and are used wherever found advantageous. The book places a consistent emphasis on showing the power of the classical analysis by applying it to the study of real valued functions and their applications. Requiring only a nodding acquaintance with ϵ - δ type arguments and definition of Riemann integral, the book will provide sufficient background material for studies in Functional Analysis, Topology, Complex Analysis, Theory of Differential Equations and so on. Key Features ? Theorems are proved in complete details and illustrated profusely using examples and counter examples ? About hundred illustrations and four hundred exercises, most of which have hints or solutions at the end of the book ? End of the chapter projects to challenge ambitious readers

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Preface / Metric Spaces: Definition of a Metric Space / Some Examples / Euclidean Metric in K^n / Normed Spaces: Normed Spaces / The Sequence Space l_p , $p > 1$ / Topology of Metric Spaces: Topological Spaces / Topology of Metric Spaces / Equivalent Metrics / Subspaces / Sequences in Metric Spaces / Closure, Interior and Boundary / Complete Metric Spaces: The Cauchy Sequence / Subsequences / Contraction Mapping / Continuity: Continuity between Metric Spaces / Open Maps, Closed Maps / Uniform Continuity / Homeomorphism and Isometry / Discontinuities and All That / Connected Metric Spaces: Connected Metric Spaces / Application of Intermediate Value Theorem / Connected Components / Path Connected Spaces / Compact Metric Spaces: Compactness / Characterization of Compact Metric Spaces / Applications / Sequences...



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