



Handbook of Analysis and Its Foundations

Eric Schechter

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Handbook of Analysis and Its Foundations is a self-contained and unified handbook on mathematical analysis and its foundations. Intended as a self-study guide for advanced undergraduates and beginning graduate students in mathematics and a reference for more advanced mathematicians, this highly readable book provides broader coverage than competing texts in the area. **Handbook of Analysis and Its Foundations** provides an introduction to a wide range of topics, including: algebra; topology; normed spaces; integration theory; topological vector spaces; and differential equations. The author effectively demonstrates the relationships between these topics and includes a few chapters on set theory and logic to explain the lack of examples for classical pathological objects whose existence proofs are not constructive. More complete than any other book on the subject, students will find this to be an invaluable handbook. For more information on this book, see <http://math.vanderbilt.edu/>

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- * Bessagas and Meyers converses of the Contraction Fixed Point Theorem
- * Redefinition of subnets by Aarnes and Andenaes
- * Ghermans characterization of topological convergences
- * Neumanns nonlinear Closed Graph Theorem
- * van Maarens geometry-free version of Sporners Lemma
- * Includes a few advanced topics in functional analysis
- * Features all areas of the foundations of analysis except geometry

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