

# *Fundamentals of* **Mathematical Analysis**

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# Fundamentals Of Mathematical Analysis

**Adel N. Boules**



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**Fundamentals of Mathematical Analysis** Adel N. Boules, 2021 A beginning graduate textbook on real and functional analysis with a substantial component on topology The three leading chapters furnish background information on the real and complex number fields a concise introduction to set theory and a rigorous treatment of vector spaces Instructors can choose material from this part as their students background warrants Chapter 4 is the spine of the book and is essential for an effective reading of the rest of the book It is an extensive study of metric spaces including the core topics of completeness compactness and function spaces with a good number of applications The remaining chapters consist of an introduction to general topology a classical treatment of Banach and Hilbert spaces the elements of operator theory and a deep account of measure and integration theories Several courses can be based on the book The entire book is suitable for a two semester course on analysis and material can be chosen to design one semester courses on topology real analysis or functional analysis The book is designed as an accessible classical introduction to the subject aims to achieve excellent breadth and depth and contains an abundance of examples and exercises The topics are carefully sequenced the proofs are detailed and the writing style is clear and concise The only prerequisites assumed are a thorough understanding of undergraduate real analysis and linear algebra and a degree of mathematical maturity Provided by publisher **Fundamentals of Mathematical Analysis** Vladimir A. Il'in, 1982 **The Fundamentals of Mathematical Analysis** G.M. Fikhtengol'ts, 1965 Mathematical

Analysis Fundamentals Agamirza Bashirov, 2014-03-27 The author's goal is a rigorous presentation of the fundamentals of analysis starting from elementary level and moving to the advanced coursework. The curriculum of all mathematics pure or applied and physics programs include a compulsory course in mathematical analysis. This book will serve as can serve a main textbook of such one semester courses. The book can also serve as additional reading for such courses as real analysis functional analysis harmonic analysis etc. For non math major students requiring math beyond calculus this is a more friendly approach than many math centric options. Friendly and well rounded presentation of pre analysis topics such as sets proof techniques and systems of numbers. Deeper discussion of the basic concept of convergence for the system of real numbers pointing out its specific features and for metric spaces. Presentation of Riemann integration and its place in the whole integration theory for single variable including the Kurzweil Henstock integration. Elements of multiplicative calculus aiming to demonstrate the non absoluteness of Newtonian calculus.

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