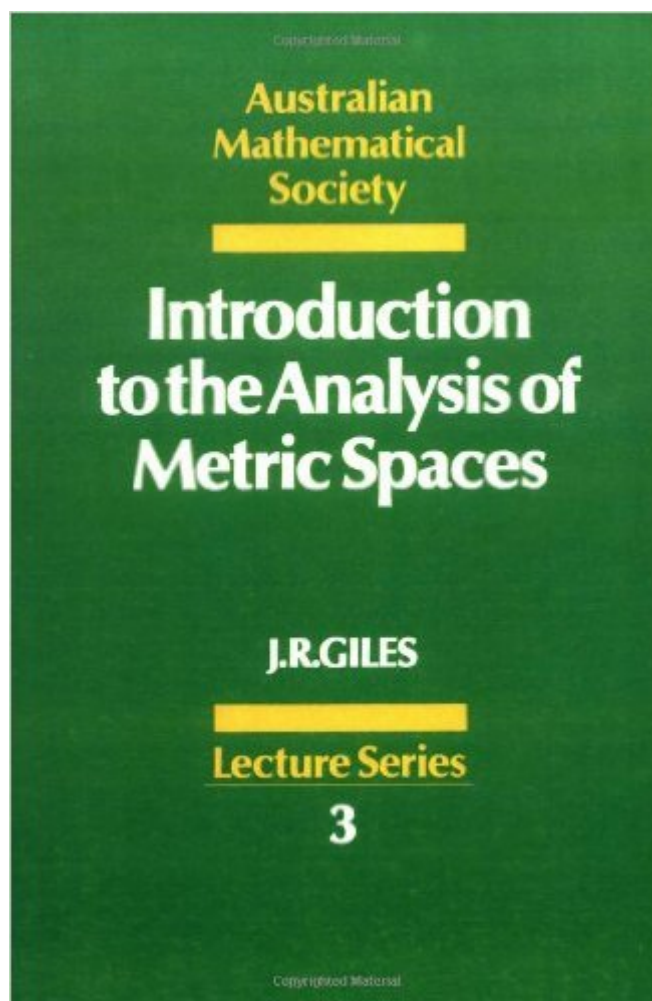# Introduction To The Analysis Of Metric Spaces (Australian Mathematical Society Lecture Series)

Synopsis

Assuming a basic knowledge of real analysis and linear algebra, the student is given some familiarity with the axiomatic method in analysis and is shown the power of this method in exploiting the fundamental analysis structures underlying a variety of applications. Although the text is titled metric spaces, normed linear spaces are introduced immediately because this added structure is present in many examples and its recognition brings an interesting link with linear algebra; finite dimensional spaces are discussed earlier. It is intended that metric spaces be studied in some detail before general topology is begun. This follows the teaching principle of proceeding from the concrete to the more abstract. Graded exercises are provided at the end of each section and in each set the earlier exercises are designed to assist in the detection of the abstract structural properties in concrete examples while the latter are more conceptually sophisticated.

Book Information

Introduction to the Analysis of Metric Spaces (Australian Mathematical Society Lecture Series) Metric in Minutes: The Comprehensive Resource for Learning and Teaching the Metric System (SI) Localization in Periodic Potentials: From Schrödinger Operators to the Gross-Pitaevskii Equation (London Mathematical Society Lecture Note Series) Entropy of Hidden Markov Processes and Connections to Dynamical Systems: Papers from the Banff International Research Station Workshop (London Mathematical Society Lecture Note Series) Australian Bushrangers - Captain

Thunderbolt (Australian Bushrangers Series) Australian Bushrangers - Ben Hall (Australian Bushrangers Series) Australian Cattle Dog Calendar - Only Dog Breed Australian Cattle Dogs Calendar - 2016 Wall calendars - Dog Calendars - Monthly Wall Calendar by Avonside Taxation for Australian Businesses: Understanding Australian Business Taxation Concessions Mathematical Interest Theory (Mathematical Association of America Textbooks) Foundations of Multidimensional and Metric Data Structures (The Morgan Kaufmann Series in Computer Graphics) Metric Handbook: Planning and Design Data Thrive: The Third Metric to Redefining Success and Creating a Life of Well-Being, Wisdom, and Wonder Multi-scale Analysis for Random Quantum Systems with Interaction (Progress in Mathematical Physics) RNA-seq Data Analysis: A Practical Approach (Chapman & Hall/CRC Mathematical and Computational Biology) Error Correcting Codes: A Mathematical Introduction (Chapman Hall/CRC Mathematics Series) Prolog and Natural-Language Analysis (Center for the Study of Language & Information - Lecture Notes) System Analysis and Modeling: Models and Reusability: 8th International Conference, SAM 2014, Valencia, Spain, September 29-30, 2014. Proceedings (Lecture Notes in Computer Science) Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data) An Introduction to Mathematical Cryptography (Undergraduate Texts in Mathematics) Schaum's Outline of Introduction to Mathematical Economics, 3rd Edition (Schaum's Outlines)