

Proof Patterns

By Mark Joshi

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This innovative textbook introduces a new pattern-based approach to learning proof methods in the mathematical sciences. Readers will discover techniques that will enable them to learn new proofs across different areas of pure mathematics with ease. The patterns in proofs from diverse fields such as algebra, analysis, topology and number theory are explored. Specific topics examined include game theory, combinatorics and Euclidean geometry, enabling a broad familiarity.

The author, an experienced lecturer and researcher renowned for his innovative view and intuitive style, illuminates a wide range of techniques and examples from duplicating the cube to triangulating polygons to the infinitude of primes to the fundamental theorem of algebra. Intended as a companion for undergraduate students, this text is an essential addition to every aspiring mathematician’s toolkit.

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Editorial Review

From the Back Cover

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About the Author
Mark Joshi is a leading research mathematician working in analysis and financial mathematics. He has published several successful textbooks and over sixty research papers in mathematics. He is known for his innovative viewpoints and intuitive style. He is currently a professor at the University of Melbourne and was previously a lecturer at Cambridge University.

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