

# An Introduction To Abstract Mathematics Bond Keane

An Introduction to Abstract Mathematics Introduction to Abstract Mathematics Israel Journal of Mathematics Probabilistic Methods in Mathematical Physics Cumulated Index to the Books Mathematical Reviews Combined Membership List of the American Mathematical Society, Mathematical Association of America, and the Society for Industrial and Applied Mathematics Colloque Paul Lévy sur les processus stochastiques The Teacher's List: containing a calendar of all executive and examining bodies; Universities ... Colleges; Public ... Schools ... together with a complete alphabetical directory of ... teachers, and a list of School Boards throughout the Kingdom. Edited by P. Bevan The Athenæum Educational Times "The" Athenaeum Surface Water Records of Georgia The Economist The Academy Catalogue The Academy and Literature Philosophy Historical and Critical Host Bibliographic Record for Boundwith Item Barcode 30112118476594 and Others Publishers' circular and booksellers' record Robert J. Bond Bond Kiyosi Itô American Mathematical Society George Phillips BEVAN Monmouth College (Monmouth, Ill.) André Lefèvre

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bond and keane explicate the elements of logical mathematical argument to elucidate the meaning and importance of mathematical rigor with definitions of concepts at their disposal students learn the rules of logical inference read and understand proofs of theorems and write their own proofs all while becoming familiar with the grammar of mathematics and its style in addition they will develop an appreciation of the different methods of proof contradiction induction the value of a proof and the beauty of an elegant argument the authors emphasize that mathematics is an ongoing vibrant discipline its long fascinating history continually intersects with territory still uncharted and questions still in need of answers the authors extensive background in teaching mathematics shines through in this balanced explicit and engaging text designed as a primer for higher level mathematics courses they elegantly demonstrate process and application and recognize the byproducts of both the achievements and the missteps of past thinkers chapters 1 5 introduce the fundamentals of

abstract mathematics and chapters 6 8 apply the ideas and techniques placing the earlier material in a real context readers interest is continually piqued by the use of clear explanations practical examples discussion and discovery exercises and historical comments

the goal of this book is to show students how mathematicians think and to glimpse some of the fascinating things they think about bond and keane develop students ability to do abstract mathematics by teaching the form of mathematics in the context of real and elementary mathematics students learn the fundamentals of mathematical logic how to read and understand definitions theorems and proofs and how to assimilate abstract ideas and communicate them in written form students will learn to write mathematical proofs coherently and correctly

lists for 19 include the mathematical association of america and 1955 also the society for industrial and applied mathematics

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