A Survey Of Mathematics With Applications

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this book covers the following topics mathematical philosophy mathematical logic the structure of number sets and the theory of real numbers arithmetic and axiomatic number theory and algebra including the study of sequences and series matrices and applications in input output analysis and linear programming probability and statistics classical euclidean geometry analytic geometry and trigonometry vectors vector spaces normed vector spaces and metric spaces basic principles of non euclidean geometries and metric geometry infinitesimal calculus and basic topology functions limits continuity topological structures homeomorphisms differentiation and integration including multivariable calculus and vector calculus complex numbers and complex analysis basic principles of ordinary differential equations as well as mathematical methods and mathematical modeling in the natural sciences including physics engineering biology and neuroscience and in the social sciences including economics management strategic studies and warfare problems

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this book presents the content and applications in an accessible manner while maintaining an appropriate level of rigor the authors proceed from familiar material to new and from concrete examples to general rules and formulas this edition retains its focus on real world problem solving but has been refreshed with a wealth of new data in the examples and exercises 39 of the 623 examples are new or revised and 28 of the 5 288 exercises are new or revised

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susanna epp s discrete mathematics third edition provides a clear introduction to discrete mathematics renowned for her lucid accessible prose epp explains complex abstract concepts with clarity and precision this book presents not only the major themes of discrete mathematics but also the reasoning that underlies mathematical thought students develop the ability to think abstractly as they study the ideas of logic and proof while learning about such concepts as logic circuits and computer addition algorithm analysis recursive thinking computability automata cryptography and combinatorics students discover that the ideas of discrete mathematics

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