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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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mathematics with applications is an applications focused text for students in business management and the natural and social sciences it offers solid coverage of college algebra followed by topics in finite mathematics and concluding with thoughtful treatment of applied calculus the text can be used for a variety of different courses across many majors and the only prerequisite is a basic course in algebra chapter 1 provides a thorough review of basic algebra for those students who need it it has been our primary goal to present mathematics in a thoughtful and useful manner building prerequisites into new material and from practical examples to more general rules and formulas there is a dedicated focus on real world problem solving and relevant contemporary applications

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