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this text represents a new entry level course in mathematics for students in programs such as mathematics the sciences and engineering which require additional courses in mathematics with enough material for a two semester course the text is written at approximately the level of introductory calculus principles and practice of mathematics was developed over a four year period under the direction of comap with nsf support it is an alternative point of entry into the undergraduate mathematics curriculum one which presents for students a wide spectrum of the contemporary world of mathematics by emphasizing the breadth and variety of modern mathematical inquiry and applications the text provides a view of the subject that is not experienced by students in the traditional calculus course the author team and advisors were selected for their experience with undergraduate education among our authors are several who have written successful textbooks the entire project has evolved under the editorial supervision of veteran comap author walter meyer adolph university

the five contributions describe some key mathematical concepts involved in the study of complex systems and non perturbative problems the selection of topics is intended to cross fertilize the various fields where complex systems theory has made an impact the book presents specific and detailed results meant for a wide audience of researchers and students it begins with those contributions which help to set up a general theoretical framework and ends with selected applications to the

particular areas of biophysics statistical physics astrophysics and cosmology it also includes an extensive bibliography this pedagogically written text can be used as an introduction to the fundamental ideas behind complex systems theory

these recent developments also open up new questions of debate including what is the role played by randomness are computers capable of handling the infinite through unconventional media of computation how can one approximate efficiently the finite by the infinite and conversely the infinite by the finite well known authors from around the world many of them architects of the mathematics and computer science for the new century contribute to this volume while mathematical in spirit contributions have many connections with computer science cognitive science linguistics philosophy physics biology and semiotics jacket

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now updated to include the most recent developments in and network technology this best selling introduction to computer science provides a breadth first overview of the full range of topics in this dynamic discipline algorithms hardware design computer organization system software language models programming compilation theory of computation applications networks artificial intelligence and the impact of computers on society the authors present these topics in the context of a big

picture six layer hierarchy of abstractions starting with the algorithmic foundations of computer science and working upward from low level hardware concepts through virtual machine environments languages software and applications programs to the social issues raised by computer technology each layer in the hierarchy builds on ideas and concepts presented earlier an accompanying lab manual provides exploratory lab experiences tied to the text material the second edition features the use of c for teaching the basics of programming with a c compiler provided with the accompanying lab manual this compiler includes a graphics library that students use to create shapes and images as part of a new section in chapter 7 on graphical programming

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