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this book is a comprehensive unifying introduction to the field of mathematical analysis and the mathematics of computing it develops the relevant theory at a modern level and it directly relates modern mathematical ideas to their diverse applications the authors develop the whole theory starting with a simple axiom system for the real numbers they then lay the foundations developing the theory exemplifying where it s applicable in turn motivating further development of the theory they progress from sets structures and numbers to metric spaces continuous functions in metric spaces linear normed spaces and linear mappings and then differential calculus and its applications the integral calculus the gamma function and linear integral operators they then present important aspects of approximation theory including numerical integration the remaining parts of the book are devoted to ordinary differential equations the discretization of operator equations and numerical solutions of ordinary differential equations this textbook contains many exercises of varying degrees of difficulty suitable for self study and

at the end of each chapter the authors present more advanced problems that shed light on interesting features suitable for classroom seminars or study groups it will be valuable for undergraduate and graduate students in mathematics computer science and related fields such as engineering this is a rich field that has experienced enormous development in recent decades and the book will also act as a reference for graduate students and practitioners who require a deeper understanding of the methodologies techniques and foundations

this multi author contributed proceedings volume contains recent advances in several areas of computational and applied mathematics each review is written by well known leaders of computational and applied mathematics the book gives a comprehensive account of a variety of topics including efficient global methods for the numerical solution of nonlinear systems of two point boundary value problems advances on collocation based numerical methods for ordinary differential equations and volterra integral equations basic methods for computing special functions melt spinning optimal control and stability issues brief survey on the cp methods for the schr dinger equation symplectic partitioned runge kutta methods for the numerical integration of periodic and oscillatory problems recent advances in computational and applied mathematics is aimed at advanced undergraduates and researchers who are working in these fast moving fields

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