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this volume contains 13 chapters which are extended versions of the presentations at international conference on inverse problems at fudan university shanghai china october 12 14 2018 in honor of masahiro yamamoto on the occasion of his 60th anniversary the chapters are authored by world renowned researchers and rising young talents and are updated accounts of various aspects of the researches on inverse problems the volume covers theories of inverse problems for partial differential

equations regularization methods and related topics from control theory this book addresses a wide audience of researchers and young post docs and graduate students who are interested in mathematical sciences as well as mathematics

this textbook is suitable for a course in advanced calculus that promotes active learning through problem solving it can be used as a base for a moore method or inquiry based class or as a guide in a traditional classroom setting where lectures are organized around the presentation of problems and solutions this book is appropriate for any student who has taken or is concurrently taking an introductory course in calculus the book includes sixteen appendices that review some indispensable prerequisites on techniques of proof writing with special attention to the notation used the course

from the reviews the work is one of the real classics of this century it has had much influence on teaching on research in several branches of hard analysis particularly complex function theory and it has been an essential indispensable source book for those seriously interested in mathematical problems these volumes contain many extraordinary problems and sequences of problems mostly from some time past well worth attention today and tomorrow written in the early twenties by two young mathematicians of outstanding talent taste breadth perception perseverance and pedagogical skill this work broke new ground in the teaching of mathematics and how to do mathematical research bulletin of the american mathematical society

problem solving is implicit in the very nature of all science and virtually all scientists are hired retained and rewarded for solving problems although the need for skilled problem solvers has never been greater there is a growing disconnect between the need for problem solvers and the educational capacity to prepare them learning to solve complex scientific problems is an immensely useful read offering the insights of cognitive scientists engineers and science educators who explain methods for helping students solve the complexities of everyday scientific problems important features of this volume include discussions on how problems are represented by the problem solvers and how perception attention memory and various forms of reasoning impact the management of information and the search for solutions how academics have applied lessons from cognitive science to better prepare students to solve complex scientific problems gender issues in science and engineering classrooms and questions to guide future problem solving research the innovative methods explored in this practical volume will be of significant value to science and engineering educators and researchers as well as to instructional designers

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the textbook is intended for teaching matlab language and its applications the book is composed of three parts matlab programming scientific computing with matlab and system simulation with simulink since matlab is widely used in all fields of science and engineering a good introduction to the language can not only help students learn how to use it to solve practical problems but also provide them with the skills to use matlab independently in their later courses and research the three parts of the book are well balanced and tailored to the needs of engineering students and the mathematical problems commonly encountered in engineering can be easily solved using matlab this textbook is suitable for undergraduate and graduate students majoring in science and engineering the study guide of this textbook could be accessed via snpubthgr7v this website provides links to recorded teaching videos matlab toolbox for the book interactive slide decks files in powerpoint documents and solution manuals by the authors

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