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a text for a first graduate course in real analysis for students in pure and applied mathematics statistics education engineering and economics this is a course in real analysis directed at advanced undergraduates and beginning graduate students in mathematics and related fields presupposing only a modest background in real analysis or advanced calculus the book offers something to specialists and non specialists the course consists of three major topics metric and normed linear spaces function spaces and lebesgue measure and integration on the line in an informal style the author gives motivation and overview of new ideas while supplying full details and proofs he includes historical commentary recommends articles for specialists and non specialists and provides exercises and suggestions for further study this text for a first graduate course in real analysis was written to accommodate the heterogeneous audiences found at the masters level

students interested in pure and applied mathematics statistics education engineering and economics

analysis giving students an introduction both to mathematical rigor and to the deep theorems and counter examples that arise from such rigor in this modern and systematic text all the touchstone results and fundamentals are carefully presented in a style that requires little prior familiarity with proofs or mathematical language with its many examples exercises and broad view of analysis this work is ideal for senior undergraduates and beginning graduate students either in the classroom or for self study

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mathematica 30 mathematical introductory analysis an inquiry approach aims to provide an inquiry oriented approach to undergraduate level real analysis the presentation of the material in the book

is intended to be inquiry oriented in that as each major topic is discussed details of the proofs are left to the student in a way that encourages an active approach to learning the book is self contained in two major ways it includes scaffolding i e brief guiding prompts marked as key steps in the proof for many of the theorems second it includes preliminary material that introduces students to the fundamental framework of logical reasoning and proof writing techniques students will be able to use the guiding prompts and refer to the preliminary work to develop their proof writing skills features structured in such a way that approximately one week of class can be devoted to each chapter suitable as a primary text for undergraduates or as a supplementary text for some postgraduate courses strikes a unique balance between

enquiry based learning and more traditional approaches to teaching 83 1500 12

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