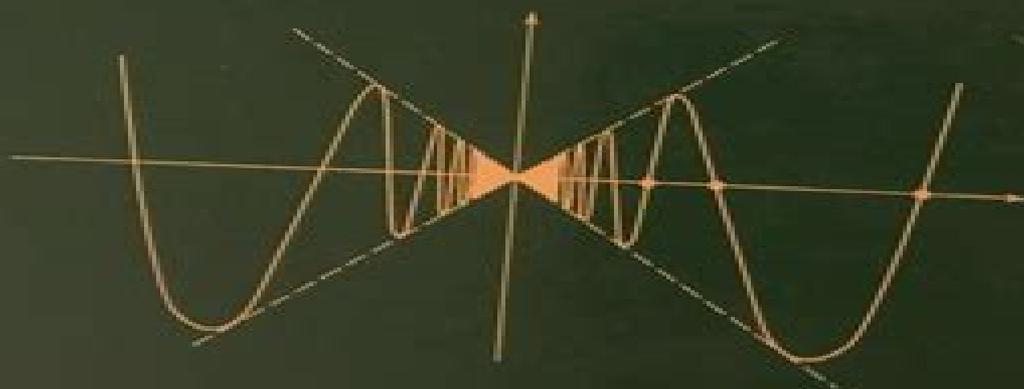


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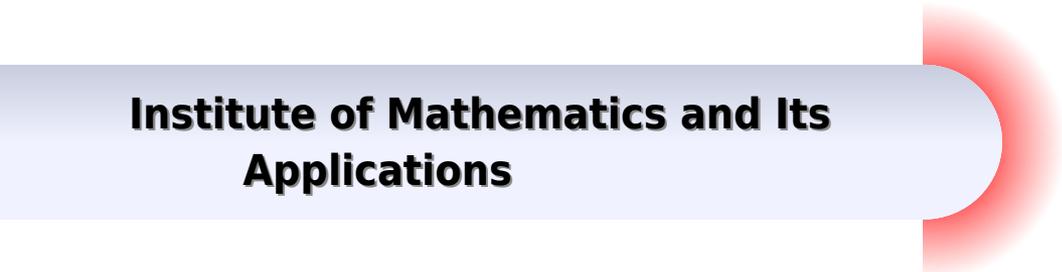
INTRODUCTION TO
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THIRD EDITION

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Introduction to Real Analysis Fourth Edition by Robert G BartleDonald R Sherbert The first three editions were very well received and this edition maintains the same spirit and user friendly approach as earlier editions Every section has been examined Some sections have been revised new examples and exercises have been added and a new section on the Darboux approach to the integral has been added to Chapter 7 There is more material than can be covered in a semester and instructors will need to make selections and perhaps use certain topics as honors or extra credit projects To provide some help for students in analyzing proofs of theorems there is an appendix on Logic and Proofs that discusses topics such as implications negations contrapositives and different types of proofs However it is a more useful experience to learn how to construct proofs by first watching and then doing than by reading about techniques of proof Results and proofs are given at a medium level of generality For instance continuous functions on closed bounded intervals are studied in detail but the proofs can be readily adapted to a more general situation This approach is used to advantage in Chapter 11 where topological concepts are discussed There are a large number of examples to illustrate the concepts and extensive lists of exercises to challenge students and to aid them in understanding the significance of the theorems Chapter 1 has a brief summary of the notions and notations for sets and functions that will be used A discussion of Mathematical Induction is given since inductive proofs arise frequently There is also a section on finite countable and infinite sets This chapter can be used to provide some practice in proofs or covered quickly or used as background material and returning later as necessary Chapter 2 presents the properties of the real number system The first two sections deal with Algebraic and Order properties and the crucial Completeness Property is given in Section 2.3 as the Supremum Property Its ramifications are discussed throughout the remainder of the chapter In Chapter 3 a thorough treatment of sequences is given along with the associated limit concepts The material is of the greatest importance Students find it rather natural although it takes time for them to become accustomed to the use of epsilon A brief introduction to Infinite Series is given in Section 3.7 with more advanced material presented in Chapter 9 Chapter 4 on limits of functions and Chapter 5 on continuous functions constitute the heart of the book The discussion of limits and continuity relies heavily on the use of sequences and the closely parallel approach of these chapters reinforces the understanding of these essential topics The fundamental properties of continuous functions on intervals are discussed in Sections 5.3 and 5.4 The notion of a gauge is introduced in Section 5.5 and used to give alternate proofs of these theorems Monotone functions are discussed in Section 5.6 The basic theory of the derivative is given in the first part of

Chapter 6 This material is standard except a result of Caratheodory is used to give simpler proofs of the Chain Rule and the Inversion Theorem The remainder of the chapter consists of applications of the Mean Value Theorem and may be explored as time permits In Chapter 7 the Riemann integral is defined in Section 7.1 as a limit of Riemann sums This has the advantage that it is consistent with the student's first exposure to the integral in calculus and since it is not dependent on order properties it permits immediate generalization to complex and vector valued functions that students may encounter in later courses It is also consistent with the generalized Riemann integral that is discussed in Chapter 10 Sections 7.2 and 7.3 develop properties of the integral and establish the Fundamental Theorem and many more

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Basic Real Analysis Houshang H. Sohrab, 2003-06-03 Basic Real Analysis demonstrates the richness of real 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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