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Introduction to real analysis / William F. Trench p. cm. ISBN 0-13-045786-8 1. Mathematical Analysis. I. Title. QA300.T6672003 515-dc21 2002032369 Free Hyperlinked Edition 2.04 December 2013 This book was published previously by Pearson Education. This free edition is made available in the hope that it will be useful as a textbook or reference.

### **INTRODUCTION TO REAL ANALYSIS - Trinity University**

INTRODUCTION TO REAL ANALYSIS Fourth Edition Robert G. Bartle Donald R. Sherbert University of Illinois, Urbana-Champaign John Wiley & Sons, Inc.

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Abstract. These are some notes on introductory real analysis. They cover the properties of the real numbers, sequences and series of real numbers, limits of functions, continuity, differentiability, sequences and series of functions, and Riemann integration. They do not include multi-variable calculus or contain any problem sets.

### **An Introduction to Real Analysis John K. Hunter**

Bartle Introduction to Real Analysis. DELHI UNIVERSITY NOTES 2ND SEMESTER REAL ANALYSIS ... 107 94 CHAPTER FOUR Limits 4.3 2.3 1 The Algebra of Sets 1 Functions 9 Mathematical Induction 17 CHAPTER TWO The Real Numbers 2.2 2.5 3.1 2.2 3.3 110 Limits of Functions 110 Limit Theorems 120 Some Extensions of the Limit Concept 129 ix .7 22 The ...

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Section 1.2 is about induction. Although this may seem out of place in a real analysis course, I have found that the typical beginning real analysis student simply cannot do an induction proof without reviewing the method.

Section 1.3 is devoted to elementary set theory and the topology of the real line, ending with the Heine-Borel and Bolzano-Weierstrass theorems.

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About This Document I often teach the MATH 501-502: Introduction to Real Analysis course at the University of Louisville. The course is intended for a mix of mostly

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This book provides a solid introduction to real analysis in one variable. The first two chapters introduce the basics of set theory, functions and mathematical induction. Also, the properties of real numbers are introduced here "borrowing" the concept and properties of field from abstract algebra.

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Introduction to Real Analysis. This is a collection of lecture notes I've used several times in the two-semester senior/graduate-level real analysis course at the University of Louisville.

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THE SET OF REAL NUMBERS 25 1.2 The set of real numbers Note: 2 lectures, the extended real numbers

are optional 1.2.1 The set of real numbers We finally get to the real number system. Instead of constructing the real number set from the rational numbers, we simply state their existence as a theorem without proof.

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The book (volume I) starts with analysis on the real line, going through sequences, series, and then into continuity, the derivative, and the Riemann integral using the Darboux approach. There are plenty of available detours along the way, or we can power through towards the metric spaces in chapter 7.

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Chapter 1 Metric Spaces These notes accompany the Fall 2011 Introduction to Real Analysis course 1.1 Definition and Examples Definition 1.1. Given a set  $X$  a metric on  $X$  is a function  $d: X \times X \rightarrow \mathbb{R}$

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