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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.

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2.3. Real numbers: algebraic properties 25 2.4. Real numbers: ordering properties 26 2.5. The supremum and infimum 27 2.6. Real numbers: completeness 29 2.7. Properties of the supremum and infimum 31
Chapter 3. Sequences 35 3.1. The absolute value 35 3.2. Sequences 36 3.3. Convergence and limits 39 3.4. Properties of limits 43 3.5. Monotone sequences 45 3.6.

An Introduction to Real Analysis John K. Hunter

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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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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is Rosenlicht's Introduction to Analysis [R1.]. There is also the freely downloadable Introduction to Real Analysis by William Trench [T.]. A note about the style of some of the proofs: Many proofs traditionally done by contradiction, I prefer to do by a direct proof or by contrapositive. While the book does include proofs by

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This is a text for a two-term course in introductory real analysis for junior or senior mathematics majors and science students with a serious interest in mathematics. Prospective educators or mathematically gifted high school students can also benefit from the mathematical maturity that can be gained from an introductory real analysis course.

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Basic Real Analysis, with an appendix "Elementary Complex Analysis" ... CONTENTS OF ADVANCED REAL ANALYSIS I. Introduction to Boundary-Value Problems II. Compact Self-Adjoint Operators III. Topics in Euclidean Fourier Analysis IV. Topics in Functional Analysis ... and a PDF file, called the "digital

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Robert Gardner Bartle was an American mathematician specializing in real analysis. He is known for writing various popular textbooks. Donald R. Sherbert is the author of Introduction to Real Analysis, 4th Edition, published by Wiley.

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Using a clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents challenging math concepts as clearly as possible. This book is intended for those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

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KEY CONCEPTS: Introduction to Real Analysis

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ELEMENTARY REAL ANALYSIS - Politechnika Wrocław,awska

The careful study of real analysis unavoidably entails the reading and writing of proofs, and like any skill, it is necessary to practice. This chapter is a starting point. Section 1.1

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REAL ANALYSIS - Centro de Matemática

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1 Introduction We begin by discussing the motivation for real analysis, and especially for the reconsideration of the notion of integral and the invention of Lebesgue integration, which goes beyond the Riemannian integral familiar from clas-sical calculus. 1. Usefulness of analysis. As one of the oldest branches of mathematics,

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An Introduction to Real Analysis John K. Hunter Department of Mathematics, University of California at Davis. ... Introduction 73 6.2. Radius of convergence 74 6.3. Examples of power series 76 ... real numbers that is bounded from below has an ini~•mum.

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William Trench - Trinity University Mathematics

ates here, real analysis was viewed as being one of the most difficult, cult courses to learn, not only because of the abstract concepts being introduced for the first time (e.g., topology, limits, mea-

Contents

Outside of the United States, please contact your local representative. Library of Congress Cataloging-in-Publication Data Bartle, Robert Gardner, 1927- Introduction to real analysis / Robert G. Bartle, Donald R. Sherbert. 4th ed. p. cm. Includes index. ISBN 978-0-471-43331-6 (hardback) 1. Mathematical analysis. 2. Functions of real variables. I.

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