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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 samespirit 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 newsection on the Darboux approach to the integral has been added to Chapter 7. There is morematerial than can be covered in a semester and instructors will need to make selections andperhaps use certain topics as honors or extra credit projects.To provide some help for students in analyzing proofs of theorems, there is anappendix on "Logic and Proofs" that discusses topics such as implications, negations,contrapositives, and different types of proofs. However, it is a more useful experience tolearn how to construct proofs by first watching and then doing than by reading abouttechniques of proof.Results and proofs are given at a medium level of generality. For instance, continuousfunctions on closed, bounded intervals are studied in detail, but the proofs can be readilyadapted to a more general situation. This approach is used to advantage in Chapter 11where topological concepts are discussed. There are a large number of examples toillustrate the concepts, and extensive lists of exercises to challenge students and to aid themin understanding the significance of the theorems.Chapter 1 has a brief summary of the notions and notations for sets and functions thatwill 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 canused to provide some practice in proofs, or covered quickly, or used as background materialand returning later as necessary.Chapter 2 presents the properties of the real number system. The first two sections dealwith Algebraic and Order properties, and the crucial Completeness Property is given inSection 2.3 as the Supremum Property. Its ramifications are discussed throughout theremainder of the chapter.In Chapter 3, a thorough treatment of sequences is given, along with the associatedlimit concepts. The material is of the greatest importance. Students find it rather naturalthough it takes time for them to become accustomed to the use of epsilon. A briefintroduction to Infinite Series is given in Section 3.7, with more advanced materialpresented in Chapter 9 Chapter 4 on limits of functions and Chapter 5 on continuous functions constitute theheart of the book. The discussion of limits and continuity relies heavily on the use ofsequences, and the closely parallel approach of these chapters reinforces the understandingof these essential topics. The fundamental properties of continuous functions on intervalsare discussed in Sections 5.3 and 5.4. The notion of a gauge is introduced in Section 5.5 andused to give alternate proofs of these theorems. Monotone functions are discussed inSection 5.6.The basic theory of the derivative is given in the first part of Chapter 6. This material isstandard, except a result of Caratheodory is used to give simpler proofs of the Chain Ruleand the Inversion Theorem. The remainder of the chapter consists of applications of theMean 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 Riemannsums. This has the advantage that it is consistent with the students' first exposure to theintegral in calculus, and since it is not dependent on order properties, it permits immediategeneralization to complex- and vector-values

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

Using an extremely clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents challenging math concepts as clearly as possible. The real number system. Differential calculus of functions of one variable. Riemann integral functions of one variable. Integral calculus of real-valued functions. Metric Spaces. For those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

Designed for an undergraduate course or for independent study, this text presents sophisticated mathematical ideas in an elementary and friendly fashion. The fundamental purpose of this book is to teach mathematical thinking while conveying the beauty and elegance of mathematics. The book contains a large number of exercises of varying difficulty, some of which are designed to help reinforce basic concepts and others of which will challenge virtually all readers. The sole prerequisite for reading this text is high school algebra. Topics covered include: * mathematical induction * modular arithmetic * the Fundamental Theorem of Arithmetic * Fermat's Little Theorem * RSA encryption * the Euclidean algorithm * rational and irrational numbers * complex numbers * cardinality * Euclidean plane geometry * constructibility (including a proof that an angle of 60 degrees cannot be trisected with a straightedge and compass) * infinite series * higher dimensional spaces. This textbook is suitable for a wide variety of courses and for a broad range of students of mathematics and other subjects. Mathematically inclined senior high school students will also be able to read this book. From the reviews of the first edition: " It is carefully written in a precise but readable and engaging style... I thoroughly enjoyed reading this recent addition to the Springer Undergraduate Texts in Mathematics series and commend this clear, well-organised, unfussy text to its target audiences. " (Nick Lord, *The Mathematical Gazette*, Vol. 100 (547), 2016) " The book is an introduction to real mathematics and is very readable. ... The book is indeed a joy to read, and would be an excellent text for an ' appreciation of mathematics ' course, among other possibilities. " (G.A. Heuer, *Mathematical Reviews*, February, 2015) " Many a benighted book misguidedly addresses the need [to teach mathematical thinking] by framing reasoning, or narrowly, proof, not as pervasive modality but somehow as itself an autonomous mathematical subject. Fortunately, the present book gets it right.... [presenting] well-chosen, basic, conceptual mathematics, suitably accessible after a K-12 education, in a detailed, self-conscious way that emphasizes methodology alongside content and crucially leads to an ultimate clear payoff. ... Summing Up: Recommended. Lower-division undergraduates and two-year technical program students; general readers. " (D.V. Feldman, *Choice*, Vol. 52 (6), February, 2015)

Written for junior and senior undergraduates, this remarkably clear and accessible treatment covers set theory, the real number system, metric spaces, continuous functions, Riemann integration, multiple integrals, and more. 1968 edition.

Developed over years of classroom use, this textbook provides a clear and accessible approach to real analysis. This modern interpretation is based on the author ' s lecture notes and has been meticulously tailored to motivate students and inspire readers to explore the material, and to continue exploring even after they have finished the book. The definitions, theorems, and proofs contained within are presented with mathematical rigor, but conveyed in an accessible manner and with language and motivation meant for students who have not taken a previous course on this subject. The text covers all of the topics essential for an introductory course, including Lebesgue measure, measurable functions, Lebesgue integrals, differentiation, absolute continuity, Banach and Hilbert spaces, and more. Throughout each chapter, challenging exercises are presented, and the end of each section includes additional problems. Such an inclusive approach creates an abundance of opportunities for readers to develop their understanding, and aids instructors as they plan their coursework. Additional resources are available online, including expanded chapters, enrichment exercises, a detailed course outline, and much more. *Introduction to Real Analysis* is intended for first-year graduate students taking a first course in real analysis, as well as for instructors seeking detailed lecture material with structure and accessibility in mind. Additionally, its content is appropriate for Ph.D. students in any scientific or engineering discipline who have taken a standard upper-level undergraduate real analysis course.

The third edition of this well known text continues to provide a solid foundation in mathematical analysis for undergraduate and first-year graduate students. The text begins with a discussion of the real number system as a complete ordered field. (Dedekind's construction is now treated in an appendix to Chapter I.) The topological background needed for the development of convergence, continuity, differentiation and integration is provided in Chapter 2. There is a new section on the gamma function, and many new and interesting exercises are included. This text is part of the Walter Rudin Student Series in Advanced Mathematics.

This elementary presentation exposes readers to both the process of rigor and the rewards inherent in taking an axiomatic approach to the study of functions of a real variable. The aim is to challenge and improve mathematical intuition rather than to verify it. The philosophy of this book is to focus attention on questions which give analysis its inherent fascination. Each chapter begins with the discussion of some motivating examples and concludes with a series of questions.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For courses in undergraduate Analysis and Transition to Advanced Mathematics. *Analysis with an Introduction to Proof*, Fifth Edition helps fill in the groundwork students need to succeed in real analysis—often considered the most difficult course in the undergraduate curriculum. By introducing logic and emphasizing the structure and nature of the arguments used, this text helps students move carefully from computationally oriented courses to abstract mathematics with its emphasis on proofs. Clear expositions and examples, helpful practice problems, numerous drawings, and selected hints/answers make this text readable, student-oriented, and

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