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The Real Number System Axioms for the real numbers. 1. Suppose $1 \in P$. Then $-1 \in P$. Now take $x \in P$. Then $-x = (-1)x \in P$ so $0 = x + (-x) \in P$. Contradiction. 2.

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call $x = \operatorname{Re} z$ the real part of z and $y = \operatorname{Im} z$ the imaginary part of z , and we call $|z| = \sqrt{x^2 + y^2}$ the absolute value, or modulus, of z . Two complex numbers $z = x + iy$, $w = u + iv$ are equal if and only if $x = u$ and $y = v$. 1.1.2. Subsets. A set A is a subset of a set X , written $A \subseteq X$ or $X \supseteq A$, if every element of A belongs to X ; that is, if $x \in A$ implies that $x \in X$:

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accepted on faith; for example, the classical result that the ratio of circumference to diameter is the same for all circles. A number of topics are treated here in considerable detail that may be inadequately covered in calculus courses and glossed over in real analysis courses.

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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.

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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

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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

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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 returned to 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

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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

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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

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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 students' 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

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the integral and establish the Fundamental Theorem and many more

The present book "Problems and Solutions for Undergraduate Real Analysis" is the combined volume of author's two books "Problems and Solutions for Undergraduate Real Analysis I" and "Problems and Solutions for Undergraduate Real Analysis II". By offering 456 exercises with different levels of difficulty, this book gives a brief exposition of the foundations of first-year undergraduate real analysis. Furthermore, we believe that students and instructors may find that the

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Integration, (15) Differential Calculus of Functions of Several Variables and (16) Integral Calculus of Functions of Several Variables. Furthermore, the main features of this book are listed as follows:1. The book contains 456 problems of undergraduate real analysis, which cover the topics mentioned above, with detailed and complete solutions. In fact, the solutions show every detail, every step and every theorem that I applied.2. Each chapter starts with a brief and concise note of introducing the notations, terminologies, basic mathematical concepts or important/famous/frequently used

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necessary in advanced mathematics.

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.

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number systems and set theory and logic to appendices and removes the material on wavelet theory, measure theory, differential forms, and the method of characteristics. It also adds a chapter on normed linear spaces and includes more examples and varying levels of exercises. Extensive Examples and Thorough Explanations Cultivate an In-Depth Understanding This best-selling book continues to give students a solid foundation in mathematical analysis and its applications. It prepares them for further exploration of measure theory, functional analysis, harmonic analysis, and beyond.

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