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Real analysis is difficult. For most students, in addition to learning new material about real numbers, topology, and sequences, they are also learning to read and write rigorous proofs for the first time. The Real Analysis Lifesaver is an

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innovative guide that helps students through their first real analysis course while giving them the solid foundation they need for further study in proof-based math. Rather than presenting polished proofs with no explanation of how they

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were devised, The Real Analysis Lifesaver takes a two-step approach, first showing students how to work backwards to solve the crux of the problem, then showing them how to write it up formally. It takes the time to provide plenty of

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examples as well as guided "fill in the blanks" exercises to solidify understanding. Newcomers to real analysis can feel like they are drowning in new symbols, concepts, and an entirely new way of thinking about math. Inspired by

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the popular Calculus Lifesaver, this book is refreshingly straightforward and full of clear explanations, pictures, and humor. It is the lifesaver that every drowning student needs. The essential “lifesaver” companion for any

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proofs are, but how to do them—in
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Every new definition is
accompanied by examples and

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important clarifications Features
more than 20 “fill in the blanks”
exercises to help internalize proof
techniques Tried and tested in the
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Introduction to Real Analysis,
Fourth Edition by Robert G.

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Bartle Donald 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

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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

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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,

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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-values

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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

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Theorem and many more

This is a self-contained book that covers the standard topics in introductory analysis and that in addition constructs the natural, rational, real and complex numbers, and also handles complex-valued

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functions, sequences, and series. The book teaches how to write proofs. Fundamental proof-writing logic is covered in Chapter 1 and is repeated and enhanced in two appendices. Many examples of proofs appear with words in a

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different font for what should be going on in the proof writer's head. The book contains many examples and exercises to solidify the understanding. The material is presented rigorously with proofs and with many worked-out

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examples. Exercises are varied, many involve proofs, and some provide additional learning materials.

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meticulous research by leading scientists and policymakers around the world “ At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an

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effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” –Per Espen

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heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world

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are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth ' s warming but to reach drawdown, that point in time

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when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an

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many other foolish things I could say about the subject of this book, but the foregoing will give the reader an idea of where my heart lies. The present book

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was written to support a first course in real analysis, normally taken after a year of elementary calculus.

Real analysis is, roughly speaking, the

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modern setting for
Calculus, "real"
alluding to the field of
real numbers that
underlies it all. At
center stage are
functions, defined and

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taking values in sets of real numbers or in sets (the plane, 3-space, etc.) readily derived from the real numbers; a first course in real analysis traditionally

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places the emphasis on real-valued functions defined on sets of real numbers. The agenda for the course: (1) start with the axioms for the field of real numbers,

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(2) build, in one semester and with appropriate rigor, the foundations of calculus (including the "Fundamental Theorem"), and, along the way, (3)

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develop those skills and attitudes that enable us to continue learning mathematics on our own. Three decades of experience with the exercise have not

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diminished my
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be done.

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decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in

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the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to

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year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's

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course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the

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calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with

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type arguments and have
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Apostol, Calculus by M
Spivak, and Pure
Mathematics by G Hardy.
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have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally

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the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

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section contains several problems, which are not purely drill exercises, but are rather meant to reinforce the fundamental concepts. Detailed solutions to all the exercises appear at the end of the book, making the book ideal also for self-study. There

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required for the study
of computational
mathematics is
introduced, and simple
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additional sets of
problems other than
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dimensional piecewise smooth case, which is distinct from the classical Gibbs-Wilbraham phenomenon of one-dimensional Fourier analysis. The Poisson summation formula treated in Chapter 3 provides an elegant

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connection between Fourier series on the circle and Fourier transforms on the real line, culminating in Landau's asymptotic formulas for lattice points on a large sphere. Much of modern harmonic analysis is

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concerned with the behavior of various linear operators on the Lebesgue spaces $L^p(\mathbb{R}^n)$. Chapter 4 gives a gentle introduction to these results, using the Riesz-Thorin theorem and the

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Marcinkiewicz interpolation formula. One of the long-time users of Fourier analysis is probability theory. In Chapter 5 the central limit theorem, iterated log theorem, and Berry-Esseen theorems are developed using

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the suitable Fourier-analytic tools. The final chapter furnishes a gentle introduction to wavelet theory, depending only on the L_2 theory of the Fourier transform (the Plancherel theorem). The basic notions of

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school, but will be useful for many beginning graduate students as well. The book starts with the fundamentals of measure theory that are gently approached through the very concrete example of Lebesgue measure.

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With this approach, Lebesgue integration becomes a natural extension of Riemann integration. Next, σ -spaces are defined. Then the book turns to a discussion of limits, the basic idea covered in a first analysis course. The book

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also discusses in detail such questions as: When does a sequence of Lebesgue integrable functions converge to a Lebesgue integrable function? What does that say about the sequence of integrals? Another

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core idea from a first analysis course is completeness. Are these \mathbb{R} -spaces complete? What exactly does that mean in this setting? This book concludes with a brief overview of General Measures. An appendix contains

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suggested projects suitable for end-of-course papers or presentations. The book is written in a very reader-friendly manner, which makes it appropriate for students of varying degrees of preparation,

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and the only prerequisite is an undergraduate course in Real Analysis.

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is presented, guiding readers through the basic topology of real numbers, limits, integration, and a series of functions in natural progression. The book moves on to analysis with more rigorous investigations, and the topology of the line is presented

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alongwith a discussion of limits and continuity that includes unusualexamples in order to direct readers' thinking beyond intuitivereasoning and on to more complex understanding. The dichotomy ofpointwise and uniform

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convergence is then addressed and is followed by differentiation and integration. Riemann-Stieltjes integrals and the Lebesgue measure are also introduced to broaden the presented perspective. The book concludes with a collection of

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simplest and most concrete forms.

Despite the use of the word ``terse'' in the title, this text might also have been called A (Gentle) Introduction to Lebesgue Integration. It is terse in the sense that it treats only a subset of those concepts typically found in a

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substantial graduate-level analysis course. The book emphasizes the motivation of these concepts and attempts to treat them simply and concretely. In particular, little mention is made of general measures other than Lebesgue until the final chapter

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and attention is limited to \mathbb{R} as opposed to \mathbb{R}^n . After establishing the primary ideas and results, the text moves on to some applications. Chapter 6 discusses classical real and complex Fourier series for L^2 functions on the interval and shows that the Fourier

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series of an L^2 function converges in L^2 to that function. Chapter 7 introduces some concepts from measurable dynamics. The Birkhoff ergodic theorem is stated without proof and results on Fourier series from Chapter 6 are used to prove that

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an irrational rotation of the circle is ergodic and that the squaring map on the complex numbers of modulus 1 is ergodic. This book is suitable for an advanced undergraduate course or for the start of a graduate course. The text presupposes that the student has had a

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