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These include the Riemann-Stieltjes integral, the Lebesgue integral, Fourier series, the Weierstrass approximation theorem, and an introduction to normal linear spaces. The Real Number System; Sequence Of Real Numbers; Structure Of Point Sets; Limits And Continuity; Differentiation; The Riemann And Riemann-Stieltjes Integral; Series of Real Numbers; Sequences And Series Of Functions; Orthogonal Functions And Fourier Series; Lebesgue Measure And Integration; Logic and Proofs; Propositions and Connectives For all readers interested in real analysis Get eBook Info Here By continuing to use AliExpress you accept our use of cookies (view more on our Privacy Policy). You can adjust your Cookie Preferences at the bottom of this page. This classic textbook has been used successfully by instructors and students for nearly three decades. This timely new edition offers minimal yet notable changes while retaining all the elements, presentation, and accessible exposition of previous editions. A list of updates is found in the Preface to this edition. This text is based on the author's experience in teaching graduate courses and the minimal requirements for successful graduate study. The text is understandable to the typical student enrolled in the course, taking into consideration the variations in abilities, background, and motivation. Chapters one through six have been written to be accessible to the average student, w hile at the same time challenging the more talented student through the exercises. Chapters seven through ten assume the students have achieved some level of expertise in the subject. In these chapters, the theorems, examples, and exercises require greater sophistication and mathematical maturity for full understanding. In addition to the standard topics the text includes topics that are not always included in comparable texts. Chapter 6 contains a section on the Riemann-Stieltjes integral and a proof of Lebesgue's t heorem providing necessary and sufficient conditions for Riemann integrability. Chapter 7 also includes a section on square summable sequences and a brief introduction to normed linear spaces. C hapter 8 contains a proof of the Weierstrass approximation theorem using the method of aapproximate identities. The inclusion of Fourier series in the text allows the student to gain some exposure to this important subject. The final chapter includes a detailed treatment of Lebesgue measure and the Lebesgue integral, using inner and outer measure. The exercises at the end of each section reinforce the concepts. Notes provide historical comments or discuss additional topics. The Real Numbers Topology of the Real Line   3.   Sequences of Real Numbers   4.   Limits and Continuity   5.   Differentiation   6.   Integration   7. Series of Real Numbers   8.   Sequences and Series of Functions   9.   Fourier Series   10.   Lebesgue Measure and Integrations You're Reading a Free Preview Pages 19 to 62 are not shown in this preview. You're Reading a Free Preview Pages 71 to 84 are not shown in this preview. You're Reading a Free Preview Pages 96 to 111 are not shown in this preview. You're Reading a Free Preview Pages 127 to 138 are not shown in this preview. You're Reading a Free Preview Pages 143 to 149 are not shown in this preview. You're Reading a Free Preview Pages 154 to 156 are not shown in this preview. You're Reading a Free Preview Pages 161 to 176 are not shown in this preview. You're Reading a Free Preview Pages 194 to 219 are not shown in this preview. You're Reading a Free Preview Pages 224 to 233 are not shown in this preview. You're Reading a Free Preview Pages 239 to 242 are not shown in this preview. You're Reading a Free Preview Pages 273 to 305 are not shown in this preview. You're Reading a Free Preview Pages 325 to 448 are not shown in this preview. 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Geometric series. Series with positive terms and convergence tests. Series with alternating terms. Improper integrals General convergence criterion. Connection with series theory. The probability integral Ordinary Differential Equation. Introduction to elementary differential equation of first order: separable, homogeneos, linear and Bernoulli. Readings/Bibliography Main text Daniele Ritelli. Lezioni di Analisi Matematica III edizione. Esculapio 2019 ISBN: 9788874888870 Further readings Marco Bramanti. Esercitazioni di Analisi Matematica 1. Esculapio ISBN: 9788874884445 Manfred Stoll. Introduction to real analysis 3rd edition. Taylor and Francis 2021 ISBN 9780-367-48688-4 Charles H.C. Little, Kee L. Teo and Bruce van Brunt: Real Analysis via Sequences and Series. Springer 2015 ISBN 978-1-4939-2651-0 Peter R. Mercer: More Calculus of a Single Variable. Springer 2014 ISBN 978-1-4939-4685-5 Robert Carlson. A Concrete Introduction to Real Analysis, second edition. 2018 CRC Press ISBN 9781498778138 Suggested preliminary reading Marco Bramanti. Precalculus. Esculapio ISBN: 9788874880201 Teaching methods Lessons ex cathedra using also video beamer. Homework. Computer algebra will also be employed to support thoretical arguments. Assessment methods Written examination of 2 hours, where is possible to use calculators and books. The exam is completed by an oral examination if the written examination is satisfactory. The aim of the exam is to detect the capability of the student to face both theoretical and practical problems in Mathematical Analysis. The written examination can be divided, for the first call, in two partial examination and is composed by multiple choice questions and solution of exercises.   Teaching tools Video beamer and blackboard. Computer algebra to illustrate important topics. The teaching material presented in class will be made available to the student in electronic format through the university's institutional portal. Username and password are reserved for students enrolled at the University of Bologna. Office hours can be delivered using Teams The teacher responds to e-mail messages, duly signed by the student with Name, Surname and matriculation number, and which concern appointment requests or topics that are not covered by the course information presented here. Links to further information Office hours See the website of Daniele Ritelli

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