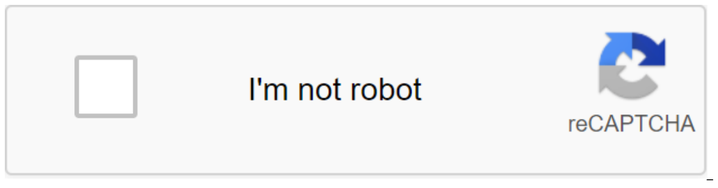

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This softcover edition of the very popular two-volume work is a thorough first course in analysis, leading from real numbers to such advanced themes as differential forms on diversity, asymptotic techniques, fourier, Laplace, and Legendre converts, elliptical functions and distribution. Particularly noteworthy in this course is a clearly expressed orientation to natural sciences and its informal study of the essence and roots of the basic concepts and the theorem of calculus. The clarity of exposure corresponds to a plethora of instructive exercises, challenges and fresh applications in areas rarely touched upon in real-world analysis books. The first volume is a full course of one variable calculus along with a multivariate differential calculus, explained in a timely, clear manner, with a pleasant geometric taste. A whole generation of mathematicians has grown up during this time - between the appearance of ?rt edition of this textbook and the publication of the fourth edition, the translation of which is in front of you. The book is fam-iar for many people who have either attended lectures on which it is based or studied from it, and who are currently teaching others at universities around the world. I am glad that it has become available to English-speaking readers. This tutorial has two parts. It is aimed primarily at university students and professors specializing in mathematics and science, as well as on all those who wish to see both rigorous mathematical theory and examplesofitse? ectiveuseinthesolutionofblemsofnaturalscience. The textbook reveals classical analysis, as it is today, as an integral part of mathematics in its relationship with other modern mathematical courses, such as algebra, di?erectal geometry, di?erenal equations, complex and functional analysis. This biography of a living person relies too much on references to the first side of the world. Please help by adding secondary or tertiary sources. Controversial material about living persons who have no sources or bad sources should be immediately removed, especially if potentially defamatory or harmful. (November 2015) (Learn how and when to delete this message template) Vladimir Antonovich SoricBorn (1937-12-16) December 16, 1937 (82 years)Moscow, USSRNationalityRussiaAlma MaterMockou State UniversityOccupationProfessor at Moscow National Labor Mathematical Analysis (1980)Detintontonic, Maria zorich HesinAwardsLenian Prize of Vladimir Antonovich zoric (born December 16, 1937 in Moscow) - Soviet and Russian mathematician, doctor of physics and mathematics (1969), professor (1971). Emeritus Professor of Moscow State University (2007). Author of the famous textbook Mathematical Analysis for students of mathematical, physical and mathematical specialties education, which is republished several times and translated into many languages. The scientific career of V.A. Soric is an expert in various fields of mathematical analysis, conformal geometry and theory of quasi-conformic maps. He graduated from the Faculty of Mechanical and Mathematics of Moscow State University named after M.V. Lomonosov in 1960. In 1963 he graduated from the Faculty of Faculty of Function Theory and Functional Analysis and defended his thesis The Boundaries of Compliance for Some Classes of Cartography in Space, which was marked as outstanding. In 1969 he defended his doctoral thesis Global reversibility of quasi-conformal maps of space. He taught at the Department of Mathematical Analysis of the Faculty of Mechanical and Mathematics: since 1963 - assistant, since 1969 - assistant professor, since 1971 - professor. Notes - Mathematical Analysis, Springer, 2004, ISBN 3540403868 Links math-net.ru page of soric on the MSU website This article about Russian mathematics is a stub. You can help Wikipedia by expanding it.vte sourced from There's a certain irony when a Russian person reads a Russian book (written by a Professor of the Moscow State) translated into English. Now, I wouldn't argue to enjoy real analysis, but unfortunately some key concepts were needed to delve into the theory of measurement (which in turn is just a stepping stone). So what can I say? I liked the explanations in this book, there were no logical gaps, and despite the (relative) level of call I managed to read this book piece by piece without lo There in a certain bit of irony when a Russian man reads a Russian book (written by a professor of the Moscow State) translated into English. Now, I wouldn't argue to enjoy real analysis, but unfortunately some key concepts were needed to delve into the theory of measurement (which in turn is just a stepping stone). So what can I say? I liked the explanations in this book, there were no logical gaps, and despite the (relative) level of challenge I managed to read this book piece by piece without losing the train of thought. ... more Basic Library List Committee suggests that students' math libraries are reviewing this book for purchase. From reviews: ... The treatment is indeed rigorous and comprehensive with the introductory chapters containing the initial section on logical symbolism (used thoughout text), through sections on sets and functions with the whole chapter on real numbers. [...] Formalism and the rigor of presentations sniff mathematicians and those ists who are looking for a strict basis for mathematics, which they use in their daily work. For such, these books are a valuable and welcome addition to the existing English language J. Herbert, University of London, Contemporary Physics 2004, Vol. 45, issue 6 Of the book is considered aimed primarily at university students and professors specializing in mathematics and science, and at all those who would like to see both mathematical theory with carefully worded theorems and rigorous evidence on the one hand, and examples of its effective use in solving practical problems on the other. The latter fact distinguishes this book from many traditional exhibitions and is of great importance, especially in connection with the applied nature of the future activities of most students. [...]. This two-volume work is a well-thought-out and carefully written first course in analysis, leading from real numbers to such advanced themes as differential forms on diversity, asymptotic methods, Fourier, Laplace and Legendre converts, elliptical functions and distributions. Exposure clarity, eye-opening exercises, challenges, and fresh applications to areas rarely covered in real-world analytical books are also among the book's outstanding key features. [...] The first volume is a complete course of one variable calculus along with a multivariate differential calculus, explained in a timely, clear manner, with a pleasant geometric taste. [...] The main material of Part 2 consists, on the one hand, of several integrats and linear and surface integrals, which leads to a generalized Stax formula and some examples of its application, and on the other hand, the mechanism of series and integrams depending on the parameter, including the Fourier series, the transformation of Fourier and the representation of asymptomatic extensions. The presentation of the material here is also very geometric. The second volume is particularly unusual for textbooks of modern analysis, and this method of structuring the course can be considered innovative. [...] Both parts are supplemented with prefaces, problems related to intermediate exams, exam topics, references and topics, as well as name indices. The book is written excellently, with rigorous evidence and geometric explanations. The main text is supplemented with a large set of examples, and almost every section ends with a set of problems and exercises that greatly complement the main text (unfortunately, there are no solutions to problems and exercises for self-control). Each volume ends with a list of topics, questions or problems for intermediate exams and a list of exam topics. The subject index, the name index, and the basic notation index round the book and make it very easy to use. The book can serve as a basis for a four-semester course for students or can be useful as a support for anyone who studies or teaches mathematical analysis. The reader will be able to follow the presentation with minimal Knowledge. The researcher can find interesting links, particularly providing access to the classic as well as to modern results. And.. Gavrilyuk, Seitschrifft Fur Analysis and ihre Anwendungen Volume 23, issue 4, 2004, page 861-863 This is a very good textbook on mathematical analysis, which will be useful to both students and teachers. [...] On the style of explanation we can say that the definitions are motivated and accurately formulated. Evidence of the theorem in the corresponding event is presented in detail and without logical gaps. This is illustrated in many examples (many of which occur in applications), and each section ends with a list of problems and exercises that expand and complement the basic text. [...] Bulletin of the European Mathematical Society, September 2004, page 47 This is a translation of the fourth edition of the famous course on mathematical analysis, taught for several years by the author at Moscow State University (MSU) and other universities. Together with V.I. Arnold and S.P. Novkov, the author is one of the organizers of advanced experimental courses at Moscow State University, this experience is reflected in the book. Written in the good tradition of Russian mathematical textbooks, the present combines intuition and accessibility with modern mathematical rigor. ... There are many exercises and challenges, of varying complexity, spreading through the book, necessary for a better understanding of the subject, as well as historical notes about the great names that have contributed over the centuries to the construction of the building of mathematical analysis. This comprehensive course in mathematical analysis provides readers, primarily students specializing in mathematics, with rigorous evidence of fundamental theorems, but also with its application in mathematics itself and beyond. This correlates with subsequent disciplines, relying on its methods and results as differential equations, differential geometry, function of complex variable and functional analysis. T. Triff, Babs Studio University. Sore Mathematics, Vol. XLIX, Issue 3, 2004 These are two large volumes of a well-known advanced calculus course written by Professor Vladimir A. Soric based on his lectures to students at Moscow State University. There are four editions of the textbook in Russian language: the first of which was printed in 1980, and thus the book has stood the ordeal of time; in my opinion, the book is one of the best (perhaps the best) modern textbooks in analysis. The words of A.N. Kolmogorov... It is quite logical to discuss ... combined with simplicity and completeness, as well as with the development of the habit of working with the real problems of natural sciences are a complete and clear characteristic of this book. ... The author writes: This book was aimed primarily at mathematicians, wanting to get evidence of fundamental theorems, but which at the same time are interested in the life of these theorems outside of mathematics itself. However, I think that this book will be useful to all beginner mathematicians (students and graduate students in mathematics, science, engineering and engineering) who want to study analysis seriously, as well as all specialists (primarily, teachers and teachers) in analysis and interdisciplinary sciences. There is no doubt that any mathematical library should have this textbook. Peter Sbraiko, Minsk, database Dzentrablatt MAT pre02011960 Another book on mathematical analysis? No way! If you have learned to love the monumental three-volume treatise of Fichtenholtz about classical differential and integral calculus in the past, then two volumes of Vladimir Sorich will be for you as a legitimate modern successor in the Russian analytical school. Vladimir Sorich is a well-known Moscow professor who has a lot of experience teaching, and this can be observed in each section of the two volumes. The presentation is always rigorous and thorough - travel through analysis at its best. But there is much more extra material! He manages to vividly present many real-world examples in almost every section to highlight abstract results and show the typical applications in which these results are used. These apps are also carefully crafted and presented so that it is a pleasure to follow the author. ... I can only recommend volumes to everyone who wants to enter the introductory course of analysis and each university teacher, I give courses on mathematical analysis. The material that can be found in these books is much more than what is digested in introductory lecture courses, but the choice can be made that will lead to interesting paths and paths through the beautiful landscape of mathematical analysis. Thomas Sonar, OVM, Seitschrift Fuhr Engevandte Mathematician and Mechanic 84, No. 9, 656 (2004) Let's get one thing right from the start. I like this two-volume set. This will make an excellent link for students and provides a huge reservoir of interesting exercises and exam questions for teachers analysis. Get your library to order a copy as soon as possible. [...] What features, apart from the great breadth, distinguish these volumes from other introductory analytical texts? [...] The foundations are carefully laid. [...] It is comprehensive and encyclopedic. [...] The material is carefully motivated by practical considerations. [...] Important ideas are introduced more than once. [...] The tempo accelerates as the text progresses. [...] 6. This two-volume set contains many good examples. [...] 7. It also contains a lot of exercise. [...] 8. Unusual touches. [...] [...] William R. Wade, University Tennessee, SIAM Book Reviews, Volume 46, No. 4 This is a very good tutorial on mathematical analysis that will be useful for both students and faculty. ... On the style of explanation we can say that the definitions are motivated and accurately formulated. Evidence of the theorem in the corresponding event is presented in detail and without logical gaps. This is illustrated in many examples (many of which occur in applications), and each section ends with a list of problems and exercises that expand and complement the basic text. (EmS-European Mathematical Society Bulletin, September 2004) Vladimir Sorich is a well-known Moscow professor who has extensive teaching experience... Presentation is always rigorous and thorough..... Soric excels in a lively representation of the wealth of real-world examples in almost every section in order to highlight abstract results and show typical applications..... These apps are also carefully crafted..... Material... will lead to interesting paths and paths through the beautiful landscape of mathematical analysis. (Thomas Sonar, Monatschefte Fuhr Mathematician, issue 4, 2004) This is a translation of the fourth edition of a famous course on mathematical analysis, taught for several years by the author . . . There are many exercises and challenges, of varying complexity, spread through the book needed to better understand the subject..... This comprehensive course on mathematical analysis provides readers, primarily students specializing in mathematics, with rigorous evidence of fundamental theorems, but also with its application in mathematics itself and beyond. (T. Trif, Studia Universitatis Babes-Bolyai Mathematica, Vol. XLIX (3), 2004) The textbook focuses primarily on students and professors of universities specializing in mathematics and science, and on all those who wish to see both strict mathematical theory and examples of its effective use in solving real problems of natural sciences ... Throughout the text, there are numerous worked examples with lists of problems..... Formalism and rigor presentations will appeal to mathematicians and those who are non-professionals who are looking for a strict foundation..... (Dr. D. Herbert, Contemporary Physics, Tom. 45 (6), 2004) This work is completed and absolutely strict. It is comprehensive and encyclopedic. ... Each definition is accompanied by nearly a dozen examples..... These examples are often carefully presented in such a way as to the gradual revelation of the nuances of the illustrated concept. ... Almost every section is followed by a massive set of exercises. ... The text is further enhanced by historical notes that are sprinkled throughout. They add both the human and the international dimension to the text. William R. Wade, SIAM Review, 46 (4), 2004 This in-depth introduction of Math.Analysis I and II into analysis should not be absent from any mathematical library, even with budget constraints, despite the abundance of introductory books. Accurate, conscious reading of this profound work may scare off potential future authors of mediocre analytical books. [...] Intuitive understanding is masterfully promoted here, conveyed by illustrative geometric ways of thinking, heuristic ideas and inductive procedures, without diced claims of accuracy or even neglecting specific details or applications. 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[...] This exquisite work breathes the spirit of a wonderful, multi-layered researcher and teacher. H.Rindler, Monthly Bulletins on Mathematics 146, Issue 4, 2005 These two volumes are an English

translation of Russian work that was published in the early 1980s and is now published for the fourth time. The books contain more than 1,200 pages of classical analysis in the modern view, as well as cross-connections with algebra, differential equations, differential geometry, complex analysis and functional alanlaise. Addressatas are students (and teachers) who, in addition to rigorous mathematical theory, are also looking for specific applications... This excellent work may be fully recommended for new students and advanced students, but teachers will also find many suggestions in it. M.Kronfellner (Vienna), IMN - International Mathematical News 59, Issue 198, 2005, page 36-37 36-37 mathematical analysis zorich pdf. mathematical analysis zorich solutions. mathematical analysis zorich review. zorich mathematical analysis 2. zorich mathematical analysis answer. mathematical analysis 1 zorich. zorich mathematical analysis 1 solutions