

University of Sargodha

M.A/M.Sc. Part-I/Composite Exam 2nd A- 2019 & 1st A-2020

Mathematics: I

Real Analysis

Maximum Marks: 100

Time Allowed: 3 Hours

Note: Objective part is compulsory. Attempt any four questions from subjective part.

Objective Part (Compulsory)

- Q.1.** Write short answers of the following in 2-3 lines each. (2*10)
- Define supremum and infimum of a subset of real numbers.
 - Define a bounded sequence of real numbers.
 - Find $\lim_{x \rightarrow 0} x^x$.
 - Define a decreasing sequence of real numbers?
 - Define the sequence of partial sums of an infinite series.
 - State the p-series test for convergence of an infinite series.
 - If $z = f(x, y)$ then write the definitions of $\frac{\partial z}{\partial x}$ and $\frac{\partial z}{\partial y}$.
 - Write the two properties of function of bounded variation.
 - Discuss the convergence of an improper integral of 1st kind.
 - Define the uniform convergence of sequence of functions.

Subjective Part (4*20)

- Q.2.** (a) Define a convergent sequence and prove that every convergent sequence of real numbers is bounded but converse may not hold.
(b) State and prove the Cauchy's criterion for convergence of an infinite series.
- Q.3.** (a) Prove that every differentiable function is continuous, but converse is not valid.
(b) State and prove the "Lagrange's Mean Value Theorem".
- Q.4.** (a) Let $z = f(x, y)$, $x = g(t)$ and $y = h(t)$ be defined in a domain D , then prove that
- $$\frac{dz}{dt} = \frac{\partial z}{\partial x} \frac{dx}{dt} + \frac{\partial z}{\partial y} \frac{dy}{dt}.$$
- (b) Find the point of the curve $x^2 - xy + y^2 - z^2 = 1$, $x^2 + y^2 = 1$ which is nearest to the origin.
- Q.5.** State and prove the two fundamental theorems of integral calculus.
- Q.6.** (a) Define the improper integrals of both kinds with all types and give example of each kind and each type.
(b) Define the function of bounded variation and show by a counter example that a continuous function may not be a function of bounded variation.
- Q.7.** (a) Let $\{f_n\}$ be a sequence of continuous functions defined on a set $A \subseteq \mathbb{R}$ and suppose that $\{f_n\}$ converges uniformly on A to a function $f: A \rightarrow \mathbb{R}$. Then prove that f is continuous on A .
(b) Assume that $f \in R(\alpha; a, b)$ for every $a < b$. Then prove that the integral $\int_a^b f d\alpha$ converges if, and only if, for every $\epsilon > 0$ there exists a $B > 0$ such that $c > b > B$ implies

$$\left| \int_a^c f(x) d\alpha(x) \right| < \epsilon.$$

Real Analysis Msc Mathematics

Masayoshi Hata



Real Analysis Msc Mathematics:

Real Analysis Gerald B. Folland, 2013-06-11 An in depth look at real analysis and its applications now expanded and revised This new edition of the widely used analysis book continues to cover real analysis in greater detail and at a more advanced level than most books on the subject Encompassing several subjects that underlie much of modern analysis the book focuses on measure and integration theory point set topology and the basics of functional analysis It illustrates the use of the general theories and introduces readers to other branches of analysis such as Fourier analysis distribution theory and probability theory This edition is bolstered in content as well as in scope extending its usefulness to students outside of pure analysis as well as those interested in dynamical systems The numerous exercises extensive bibliography and review chapter on sets and metric spaces make Real Analysis Modern Techniques and Their Applications Second Edition invaluable for students in graduate level analysis courses New features include Revised material on the n dimensional Lebesgue integral An improved proof of Tychonoff's theorem Expanded material on Fourier analysis A newly written chapter devoted to distributions and differential equations Updated material on Hausdorff dimension and fractal dimension

Mathematics Education Khoon Yoong Wong, 2009 This title provides much food for thought and pointers to meet future challenges in mathematics education not only within Singapore but also in other countries

Basic Real Analysis Anthony W. Knap, 2007-10-04 Systematically develop the concepts and tools that are vital to every mathematician whether pure or applied aspiring or established A comprehensive treatment with a global view of the subject emphasizing the connections between real analysis and other branches of mathematics Included throughout are many examples and hundreds of problems and a separate 55 page section gives hints or complete solutions for most

Real Analysis Emmanuele DiBenedetto, 2012-12-06 This book is a self contained introduction to real analysis assuming only basic notions on limits of sequences in $\mathbb{R}^n$ manipulations of series their convergence criteria advanced differential calculus and basic algebra of sets The passage from the setting in $\mathbb{R}^n$ to abstract spaces and their topologies is gradual Continuous reference is made to the $\mathbb{R}^n$ setting where most of the basic concepts originated The first seven chapters contain material forming the backbone of a basic training in real analysis The remaining two chapters are more topical relating to maximal functions functions of bounded mean oscillation rearrangements potential theory and the theory of Sobolev functions Even though the layout of the book is theoretical the entire book and the last chapters in particular concern applications of mathematical analysis to models of physical phenomena through partial differential equations The preliminaries contain a review of the notions of countable sets and related examples We introduce some special sets such as the Cantor set and its variants and examine their structure These sets will be a reference point for a number of examples and counterexamples in measure theory Chapter II and in the Lebesgue differentiability theory of absolute continuous functions Chapter IV This initial chapter also contains a brief collection of the various notions of ordering the Hausdorff maximal principle Zorn's lemma the well ordering

principle and their fundamental connections *Real Analysis* G. B. Folland, 1984-09-24 This book covers the subject matter that is central to mathematical analysis measure and integration theory some point set topology and rudiments of functional analysis Also a number of other topics are developed to illustrate the uses of this core material in important areas of mathematics and to introduce readers to more advanced techniques Some of the material presented has never appeared outside of advanced monographs and research papers or been readily available in comparative texts About 460 exercises at varying levels of difficulty give readers practice in working with the ideas presented here **Introductory Real Analysis** A. N. Kolmogorov, S. V. Fomin, 1975-06-01 Comprehensive elementary introduction to real and functional analysis covers basic concepts and introductory principles in set theory metric spaces topological and linear spaces linear functionals and linear operators more 1970 edition **Elements of Real Analysis** M.D. Raisinghania, 2003-06 This book is an attempt to make presentation of Elements of Real Analysis more lucid The book contains examples and exercises meant to help a proper understanding of the text For B A B Sc and Honours Mathematics and Physics M A and M Sc Mathematics students of various Universities Institutions As per UGC Model Curriculum and for I A S and Various other competitive exams Real Mathematical Analysis Charles C. Pugh, 2003-11-14 Was plane geometry your favourite math course in high school Did you like proving theorems Are you sick of memorising integrals If so real analysis could be your cup of tea In contrast to calculus and elementary algebra it involves neither formula manipulation nor applications to other fields of science None It is Pure Mathematics and it is sure to appeal to the budding pure mathematician In this new introduction to undergraduate real analysis the author takes a different approach from past studies of the subject by stressing the importance of pictures in mathematics and hard problems The exposition is informal and relaxed with many helpful asides examples and occasional comments from mathematicians like Dieudonne Littlewood and Osserman The author has taught the subject many times over the last 35 years at Berkeley and this book is based on the honours version of this course The book contains an excellent selection of more than 500 exercises An Introduction to Real Analysis Derek G. Ball, 2014-05-17 An Introduction to Real Analysis presents the concepts of real analysis and highlights the problems which necessitate the introduction of these concepts Topics range from sets relations and functions to numbers sequences series derivatives and the Riemann integral This volume begins with an introduction to some of the problems which are met in the use of numbers for measuring and which provide motivation for the creation of real analysis Attention then turns to real numbers that are built up from natural numbers with emphasis on integers rationals and irrationals The chapters that follow explore the conditions under which sequences have limits and derive the limits of many important sequences along with functions of a real variable Rolle s theorem and the nature of the derivative and the theory of infinite series and how the concepts may be applied to decimal representation The book also discusses some important functions and expansions before concluding with a chapter on the Riemann integral and the problem of area and its measurement Throughout the text the stress has been upon concepts and

interesting results rather than upon techniques Each chapter contains exercises meant to facilitate understanding of the subject matter This book is intended for students in colleges of education and others with similar needs **A Sequential**

Introduction To Real Analysis J Martin Speight, 2015-10-29 Real analysis provides the fundamental underpinnings for calculus arguably the most useful and influential mathematical idea ever invented It is a core subject in any mathematics degree and also one which many students find challenging A Sequential Introduction to Real Analysis gives a fresh take on real analysis by formulating all the underlying concepts in terms of convergence of sequences The result is a coherent mathematically rigorous but conceptually simple development of the standard theory of differential and integral calculus ideally suited to undergraduate students learning real analysis for the first time This book can be used as the basis of an undergraduate real analysis course or used as further reading material to give an alternative perspective within a conventional real analysis course *Real Analysis: Measures, Integrals and Applications* Boris Makarov, Anatolii

Podkorytov, 2013-06-14 Real Analysis Measures Integrals and Applications is devoted to the basics of integration theory and its related topics The main emphasis is made on the properties of the Lebesgue integral and various applications both classical and those rarely covered in literature This book provides a detailed introduction to Lebesgue measure and integration as well as the classical results concerning integrals of multivariable functions It examines the concept of the Hausdorff measure the properties of the area on smooth and Lipschitz surfaces the divergence formula and Laplace's method for finding the asymptotic behavior of integrals The general theory is then applied to harmonic analysis geometry and topology Preliminaries are provided on probability theory including the study of the Rademacher functions as a sequence of independent random variables The book contains more than 600 examples and exercises The reader who has mastered the first third of the book will be able to study other areas of mathematics that use integration such as probability theory statistics functional analysis partial probability theory statistics functional analysis partial differential equations and others

Real Analysis Measures Integrals and Applications is intended for advanced undergraduate and graduate students in mathematics and physics It assumes that the reader is familiar with basic linear algebra and differential calculus of functions of several variables **Real Analysis and Foundations** Steven G. Krantz, 2016-04-19 A Readable yet Rigorous Approach to an Essential Part of Mathematical Thinking Back by popular demand Real Analysis and Foundations Third Edition bridges the gap between classic theoretical texts and less rigorous ones providing a smooth transition from logic and proofs to real analysis Along with the basic material the text covers Riemann Stieltjes integrals Fourier analysis metric spaces and applications and differential equations New to the Third Edition Offering a more streamlined presentation this edition moves elementary 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

Real Analysis and Applications Kenneth R. Davidson, Allan P. Donsig, 2009-10-13 This new approach to real analysis stresses the use of the subject with respect to applications i e how the principles and theory of real analysis can be applied in a variety of settings in subjects ranging from Fourier series and polynomial approximation to discrete dynamical systems and nonlinear optimization Users will be prepared for more intensive work in each topic through these applications and their accompanying exercises This book is appropriate for math enthusiasts with a prior knowledge of both calculus and linear algebra

Real Analysis Royden, 1989 **Framing Global Mathematics** Norbert Schappacher, 2022-06-15 This open access book is about the shaping of international relations in mathematics over the last two hundred years It focusses on institutions and organizations that were created to frame the international dimension of mathematical research Today striking evidence of globalized mathematics is provided by countless international meetings and the worldwide repository ArXiv The text follows the sinuous path that was taken to reach this state from the long nineteenth century through the two wars to the present day International cooperation in mathematics was well established by 1900 centered in Europe The first International Mathematical Union IMU founded in 1920 and disbanded in 1932 reflected above all the trauma of WW I Since 1950 the current IMU has played an increasing role in defining mathematical excellence as is shown both in the historical narrative and by analyzing data about the International Congresses of Mathematicians For each of the three periods discussed interactions are explored between world politics the advancement of scientific infrastructures and the inner evolution of mathematics Readers will thus take a new look at the place of mathematics in world culture and how international organizations can make a difference Aimed at mathematicians historians of science scientists and the scientifically inclined general public the book will be valuable to anyone interested in the history of science on an international level

A First Course in Real Analysis Murray H. Protter, Charles B. Jr. Morrey, 1997-03-07 Many changes have been made in this second edition of A First Course in Real Analysis The most noticeable is the addition of many problems and the inclusion of answers to most of the odd numbered exercises The book s readability has also been improved by the further clarification of many of the proofs additional explanatory remarks and clearer notation

Elements of Real Analysis Charles Denlinger, 2011-01-28 A student friendly guide to learning all the important ideas of elementary real analysis this resource is based on the author s many years of experience teaching the subject to typical undergraduate mathematics majors

Real Analysis Andrew M. Bruckner, Judith B. Bruckner, Brian S. Thomson, 1997 This book provides an introductory chapter containing background material as well as a mini overview of much of the course making the book accessible to readers with varied backgrounds It uses a wealth of examples to introduce topics and to illustrate important concepts

KEY TOPICS Explains the ideas behind developments and proofs showing that proofs come not from magical

methods but from natural processes Introduces concepts in stages and features applications of abstract theorems to concrete settings showing the power of an abstract approach in problem solving

An Introductory Course in Summability

Theory Ants Aasma, Hemen Dutta, P. N. Natarajan, 2017-04-05 An introductory course in summability theory for students researchers physicists and engineers In creating this book the authors intent was to provide graduate students researchers physicists and engineers with a reasonable introduction to summability theory Over the course of nine chapters the authors cover all of the fundamental concepts and equations informing summability theory and its applications as well as some of its lesser known aspects Following a brief introduction to the history of summability theory general matrix methods are introduced and the Silverman Toeplitz theorem on regular matrices is discussed A variety of special summability methods including the N rlund method the Weighted Mean method the Abel method and the C 1 method are next examined An entire chapter is devoted to a discussion of some elementary Tauberian theorems involving certain summability methods Following this are chapters devoted to matrix transforms of summability and absolute summability domains of reversible and normal methods the notion of a perfect matrix method matrix transforms of summability and absolute summability domains of the Ces ro and Riesz methods convergence and the boundedness of sequences with speed and convergence boundedness and summability with speed Discusses results on matrix transforms of several matrix methods The only English language textbook describing the notions of convergence boundedness and summability with speed as well as their applications in approximation theory Compares the approximation orders of Fourier expansions in Banach spaces by different matrix methods Matrix transforms of summability domains of regular perfect matrix methods are examined Each chapter contains several solved examples and end of chapter exercises including hints for solutions An Introductory Course in Summability Theory is the ideal first text in summability theory for graduate students especially those having a good grasp of real and complex analysis It is also a valuable reference for mathematics researchers and for physicists and engineers who work with Fourier series Fourier transforms or analytic continuation ANTS AASMA PhD is Associate Professor of Mathematical Economics in the Department of Economics and Finance at Tallinn University of Technology Estonia HEMEN DUTTA PhD is Senior Assistant Professor of Mathematics at Gauhati University India P N NATARAJAN PhD is Formerly Professor and Head of the Department of Mathematics Ramakrishna Mission Vivekananda College Chennai Tamilnadu India

Problems And Solutions In Real Analysis Masayoshi Hata, 2007-11-16 This unique book provides a collection of more than 200 mathematical problems and their detailed solutions which contain very useful tips and skills in real analysis Each chapter has an introduction in which some fundamental definitions and propositions are prepared This also contains many brief historical comments on some significant mathematical results in real analysis together with useful references Problems and Solutions in Real Analysis may be used as advanced exercises by undergraduate students during or after courses in calculus and linear algebra It is also useful for graduate students who are interested in analytic number theory Readers will also be able to

completely grasp a simple and elementary proof of the prime number theorem through several exercises The book is also suitable for non experts who wish to understand mathematical analysis

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