

# Elementary Mathematical Analysis

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Elementary Mathematical Analysis (Classic Reprint)  
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A Course in Mathematical Analysis  
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Elementary Real and Complex Analysis  
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elementary mathematical analysis is a comprehensive textbook intended for students seeking a rigorous introduction to mathematical analysis authored by john wesley young and frank millett morgan this volume

originally published in 1918 presents a detailed exploration of fundamental concepts in calculus and analysis the book covers a range of topics including functions limits continuity differentiation integration and series with a focus on clarity and precision the authors provide numerous examples and exercises to reinforce understanding and develop problem solving skills this classic text remains valuable for its thorough treatment of essential mathematical principles and its contribution to the historical development of mathematical education this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

excerpt from elementary mathematical analysis this book aims to present a course suitable for students in the first year of our colleges universities and technical schools it presupposes on the part of the student only the usual minimum entrance requirements in elementary algebra and plane geometry the book has been written with the hope of contributing something toward the solution of the problem of increasing the value and significance of our freshman courses the recent widespread discussion of this problem has led to the general acceptance on the part of many teachers of certain principles governing the selection and arrangement of material and the point of view from which it is to be presented among such principles which have guided us in the preparation of this text are the following about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at [forgottenbooks.com](http://forgottenbooks.com) this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast

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excerpt from elementary mathematical analysis a text book for first year college students this book is not intended to be text a practical mathematics in the sense of making use of scientific material and of fundamental notions not already in the possession of the student or in the sense of making the principles of mathematics secondary to its technique on the contrary it has been the aim to give the fundamental truths of elementary analysis as much prominence as seems possible in a working course for freshmen the emphasis of the book is intended to be upon the notion of functionality illustrations from science are freely used to make this concept prominent the student should learn early in his course that an important purpose of mathematics is to express and to interpret the laws of actual phenomena and not primarily to secure here and there certain computed results mathematics might well be defined as the science that takes the broadest view of all of the sciences an epitome of quantitative knowledge the introduction of the student to a broad view of mathematics can hardly begin too early the ideas explained above are developed in accordance with a two fold plan as follows first the plan is to group the material of elementary analysis about the consideration of the three fundamental functions 2 the simple periodic function  $y = a \sin mx$  considered as fundamental to all periodic phenomena 3 the exponential function or the law as  $x$  changes by a fixed increment  $y$  changes by a fixed multiple about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at [forgottenbooks.com](http://forgottenbooks.com) this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

excerpt from elementary mathematical analysis this book aims to present a course suitable for students in the first year of our colleges universities and technical schools it presupposes on the part of the student only the usual minimum entrance requirements in elementary algebra and plane geometry the book has been written with the hope of contributing something toward the solution of the problem of increasing the value and significance of our freshman courses the recent widespread discussion of this problem has led to the general acceptance on the part of many

teachers of certain principles governing the selection and arrangement of material and the point of view from which it is to be presented among such principles which have guided us in the preparation of this text are the following 1 more emphasis should be placed on insight and understanding of fundamental conceptions and modes of thought less emphasis on algebraic technique and facility of manipulation the development of proficiency in algebraic manipulation as such we believe has little general educational value it is valuable only as a means to an end not as an end in itself a certain amount of skill in algebraic reduction is of course essential to any effective understanding of mathematical processes and this minimum of skill the student must secure but it seems undesirable in the first year to emphasize the formal aspects of mathematics beyond what is necessary for the understanding of mathematical thought about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at [forgottenbooks.com](http://forgottenbooks.com) this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

this book is not intended to be a text on practical mathematics in the sense of making use of scientific material and of fundamental notion not already in the possession of the student or in the sense of making the principles of mathematics secondary to its technique on the contrary it has been the aim to give the fundamental truths of elementary analysis as much prominence as seems possible in a working course for freshmen the emphasis of the book is intended to be upon the notion of functionality illustrations from science are freely used to make this concept prominent the student should learn early in his course that an important purpose of mathematics is to express and to interpret the laws of actual phenomena and not primarily to secure here and there certain computed results mathematics might well be defined as the science that takes the broadest view of all of the sciences an epitome of quantitative knowledge the introduction of the student to a broad view of mathematics can hardly begin too early

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the first volume of three providing a full and detailed account of undergraduate mathematical analysis

designed for students having no previous experience with rigorous proofs this text can be used immediately after standard calculus courses it is highly recommended for anyone planning to study advanced analysis as well as for future secondary school teachers a limited number of concepts involving the real line and functions on the real line are studied while many abstract ideas such as metric spaces and ordered systems are avoided completely a thorough treatment of sequences of numbers is used as a basis for studying standard calculus topics and optional sections invite students to study such topics as metric spaces and riemann stieltjes integrals

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