

A Treatise On Elementary And Higher Algebra

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Explore this comprehensive treatise on elementary and higher algebra, meticulously designed to provide a robust understanding of fundamental principles through to advanced algebraic concepts. This essential mathematics textbook serves as an invaluable resource for students and scholars delving into the intricate world of algebra, offering a thorough exploration suitable for various levels of study.

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A Treatise on Elementary and Higher Algebra

Reprint of the original, first published in 1859.

A Treatise on Elementary and Higher Algebra

Excerpt from A Treatise on Elementary and Higher Algebra Mr principal object in the preparation of this work has been to give the results of certain speculations which have occupied my attention, and which seem to constitute very important additions to the science of Algebra. Thus, at page 489, etc., the roots of an equation are developed into a series, and thence it is shown that an equation of the n th degree must have n roots. At pages 457, etc., and 464, etc., the solutions of Binomial Equations and the Irreducible case of Cubic Equations are completed by pure Algebra. And at page 512, etc., a new and general method is given for the development of the roots of equations, 'which seems to be much more simple than any heretofore proposed. I have endeavored to give a full view of the present state of the Science, and to adapt my work to the wants of teachers and pupils, not only in our Colleges and Academies, but in schools of a primary character. Great pains have been taken to present the principles and processes of the Science in so clear a manner that the student may readily understand them, and be fully satisfied as to their correctness. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

A Treatise on Elementary and Higher Algebra (Classic Reprint)

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A Treatise on Elementary and Higher Algebra

Excerpt from A Treatise on Algebra: Embracing, Besides the Elementary Principles, All the Higher Parts Usually Taught in Colleges While I acknowledge, that, in general, the principles have long been known, I think I am justifiable in claiming some of the methods of operation as original. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

TREATISE ON ELEMENTARY AND HIGHER ALGEBRA

Excerpt from An Elementary Treatise on Algebra, for the Use of Students in High Schools and Colleges Most of the problems are original; others have been selected, which seemed the most appropriate. Although this treatise is designed for students in the higher grade of seminaries, it is not beyond the reach of any, who have a good knowledge Of arithmetic, and who are under the guidance of Competent instructors. Should Articles 46, 58, 59, 153 and 154 be found too difficult for the beginner, on his first perusal Of the book, they may be postponed for investigation in a review. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

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An Elementary Treatise on Algebra

Excerpt from An Elementary Treatise on Algebra, for the Use of Students in High Schools and Colleges The author of this treatise has endeavored to prepare a work which should sufficiently exercise the ability of most learners, without becoming, at the same time, repulsive to them by being excessively abstract. Some writers err in expecting too much, and others err, in an equal degree, by requiring

too little of the student. What success has attended an attempt to attain a proper medium it is left for competent teachers to decide. This work commences in the inductive manner, because that mode is most attractive to beginners. As the learner advances, and acquires strength to grapple with it, he meets with the more rigorous kind of demonstration. This course seems the most natural and effective. Induction is excellent in its place ; but when an attempt is made to carry it into all the departments of an exact science, the result often shows, that the main object of study was misapprehended. The young frequently fail to deduce clearly the general principle from the particular instances which have engaged their attention. Several parts of algebra, which are either omitted or not explained with sufficient distinctness in other works, have received particular attention in this. These parts treat of principles and operations, with which students rarely become familiar, but which are essential to a clear comprehension of the subject. Among these operations may be mentioned the separation of quantities into factors, finding the divisors of quantities, and the substitution of numbers in algebraic so mulæ. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

An Elementary Treatise on Algebra, for the Use of Students in High Schools and Colleges (Classic Reprint)

Excerpt from A Treatise on Algebra The following work is designed for the use of the higher classes of Schools and the junior students in the Universities. Although the book is complete in itself, in the sense that it begins at the beginning, it is expected that students who use it will have previously read some more elementary work on Algebra: the simpler parts of the subject are therefore treated somewhat briefly. I have ventured to make one important change from the usual order adopted in English text-books on Algebra, namely by considering some of the tests of the convergency of infinite series before making any use of such series: this change will, I feel sure, be generally approved. The order in which the different chapters of the book may be read is, however, to a great extent optional. A knowledge of the elementary properties of Determinants is of great and increasing practical utility; and I have therefore introduced a short discussion of their fundamental properties, founded on the Treatises of Dostor and Muir. No pains have been spared to ensure variety and interest in the examples. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

A Treatise on Algebra

The Classic Texts Series is the only of its kind selection of classic pieces of work that started off as bestseller and continues to be the bestseller even today. These classic texts have been designed so as to work as elementary textbooks which play a crucial role in building the concepts from scratch as in-depth knowledge of concepts is necessary for students preparing for various entrance exams. The present book on Higher Algebra presents all the elements of Higher Algebra in a single book meant to work as textbook for the students beginning their preparation of the varied aspects covered under Higher Algebra. The present book has been divided into 35 chapters namely Ratio, Proportion, Variation, Arithmetical Progression, Geometrical Progression, Harmonical Progression Theorems Connected with The Progression, Scales of Notation, Surds & Imaginary Quantities, The Theory of Quadratic Equations, Miscellaneous Equations, Permutations & Combinations, Mathematical Induction, Binomial Theorem Positive Integral Index, Binomial Theorem, Any Index, Multinomial Theorem, Logarithms, Exponential & Logarithmic Series, Interest & Annuities, Inequalities, Limiting Values & Vanishing Fractions, Convergency & Divergency of Series, Undetermined Coefficients, Partial Fractions, Recurring Series, Continued Fractions, Recurring Series, Continued Fractions, Indeterminate Equations of the First Degree, Recurring Continued Fractions, Indeterminate Equations of the Second Degree, Summation of Series, Theory of Numbers, The General Theory of Continued Fractions, Probability,

Determinants, Miscellaneous Theorems & Examples and Theory of Equations, each subdivided into number of topics. The first few chapters in the book have been devoted to a fuller discussion of Ratio, Proportions, Variation and the Progressions. Both the theoretical text as well as examples have been treated minutely which will help in better understanding of the concepts covered in the book. Theoretical explanation of the concepts in points has been provided at the beginning of each chapter. At the end of each chapter, unsolved practice exercises have been provided to help aspirants revise the concepts discussed in the chapter. At the end of chapterwise study, miscellaneous examples have also been given along with answers and solutions to the unsolved examples covered in each chapter. All the relevant theorems covered under the syllabi of Higher Algebra have also been covered in the detail in this book. As the book covers the whole syllabi of Higher Algebra in detail along with ample number of solved examples, it for sure will help the students perfect the varied concepts covered under the Higher Algebra section.

Higher Algebra

Excerpt from Ray's New Higher Algebra: Elements of Algebra, for Colleges, Schools, and Private Students It is both a demonstrative and a practical science - a system of truths and reasoning, from which is derived a collection of Rules that may be used in the solution of an endless variety of problems, not only interesting to the student, but many of which are of the highest possible utility in the arts of life. The object of the present treatise is to present an outline of this science in a brief, clear, and practical form. The aim throughout has been to demonstrate every principle, and to furnish the student the means of understanding clearly the rationale of every process he is required to perform. No effort has been made to simplify subjects by omitting that which is difficult, but rather to present them in such a light as to render their acquisition within the reach of all who will take the pains to study. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

Elementary Algebra for Schools

Excerpt from Ray's New Higher Algebra: Elements of Algebra for Colleges, Schools, and Private Students Algebra is justly regarded one of the most interesting and useful branches of education, and an acquaintance with it is now sought by all who advance beyond the more common elements. To those who would know Mathematics, a knowledge not merely of its elementary principles, but also of its higher parts, is essential; while no one can lay claim to that discipline of mind which education confers, who is not familiar with the logic of Algebra. It is both a demonstrative and a practical science - a system of truths and reasoning, from which is derived a collection of Rules that may be used in the solution of an endless variety of problems, not only interesting to the student, but many of which are of the highest possible utility in the arts of life. The object of the present treatise is to present an outline of this science in a brief, clear, and practical form. The aim throughout has been to demonstrate every principle, and to furnish the student the means of understanding clearly the rationale of every process he is required to perform. No effort has been made to simplify subjects by omitting that which is difficult, but rather to present them in such a light as to render their acquisition within the reach of all who will take the pains to study. To fix the principles in the mind of the student, and to show their bearing and utility, great attention has been paid to the preparation of practical exercises. These are intended rather to illustrate the principles of the science, than as difficult problems to torture the ingenuity of the learner, or amuse the already skillful Algebraist. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

An Elementary Treatise on Algebra, for the Use of Students in High Schools and Colleges

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A Treatise on Algebra

Excerpt from A Treatise on Algebra The following work is designed for the use of the higher classes of Schools and the junior students in the Universities. Although the book is complete in itself, in the sense that it begins at the beginning, it is expected that students who use it will have previously read some more elementary work on Algebra: the simpler parts of the subject are therefore treated somewhat briefly. I have ventured to make one important change from the usual order adopted in English text-books on Algebra, namely by considering some of the tests of the convergence of infinite series before making any use of such series: this change will, I feel sure, be generally approved. The order in which the different chapters of the book may be read is, however, to a great extent optional. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

HIGHER ALGEBRA

Excerpt from An Elementary Treatise: On the Theory of Equations; With a Collection of Examples The present treatise contains all the propositions which are usually included in elementary treatises on the Theory of Equations, together with a collection of examples for exercise. As the Theory of Equations involves a large number of interesting and important results, which can be demonstrated with simplicity and clearness, the subject may advantageously engage the attention of a student at an early period of his mathematical course. The present treatise may be read by those who are familiar with Algebra, since no higher knowledge is assumed, except in Arts. 149, 175, 268, 308...314, and Chapter xxxi., which may be postponed by those who are not acquainted with De Moivre's Theorem in Trigonometry. This work may be regarded as a sequel to that on Algebra by the present writer, and accordingly the student has occasionally been referred to the treatise on Algebra for preliminary information on some topics here discussed. In composing the present work, the author has obtained assistance from the treatises on Algebra by Bourdon, Lefebure de Fourcy, and Mayer and Choquet; on special points he has consulted other writers, who are named in their appropriate places in the course of the work. The examples have been selected from the College and University examination papers, and the results have been given where it appeared necessary; in most cases however, from the nature of the example, the student will be able immediately to test the correctness of his result. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

Ray's New Higher Algebra

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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.

An Elementary Treatise on Algebra

In addition to the standard topics, this volume contains many topics not often found in an algebra book, such as inequalities, and the elements of substitution theory. Especially extensive is Chrystal's treatment of the infinite series, infinite products, and (finite and infinite) continued fractions. The range of entries in the Subject Index is very wide. To mention a few out of many hundreds: Horner's method, multinomial theorem, mortality table, arithmetico-geometric series, Pellian equation, Bernoulli numbers, irrationality of e , Gudermanian, Euler numbers, continuant, Stirling's theorem, Riemann surface. This volume includes over 2,400 exercises with solutions.

Ray's New Higher Algebra

Excerpt from An University Algebra: Comprising I. A Compendious, Yet Complete and Thorough Course in Elementary Algebra, and II. An Advanced Course in Algebra, Sufficiently Extended to Meet the Wants of Our Universities, Colleges, and Schools of Science The present volume is designed for use in these advanced courses of training. Thus, while it is thought that the former affords as extended a course in Algebra as is expedient for the preparatory schools, it is believed that this will be found to contain all that these higher schools require. It was deemed necessary to make the work a complete treatise, including the Elements, for purposes of reference, and for reviews, and also in consideration of the fact that our higher institutions have various standards of requirement for admission. In fact, there are few students of Higher Algebra who do not find it necessary to have the Elements at hand for occasional consultation. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

Higher Algebra

This well-known textbook provides comprehensive coverage of algebraic topics at the concerned level of mathematical study. The exhaustive discussion of ratio, proportion, variation, etc. is intended for conceptual formation and development of students so they can gain skills for attempting the problems independently. The convergency and divergency of series has been made easily comprehensible by the just introduction of limiting values and vanishing fractions. Science and engineering students can rely on it for strengthening their algebraic acumen necessary for success in mathematics exams'conventional as well as competitive.

A Treatise on Algebra, embracing, besides the elementary principles, all the higher parts usually taught in colleges, etc

This book is an informal and readable introduction to higher algebra at the post-calculus level. The concepts of ring and field are introduced through study of the familiar examples of the integers and polynomials. The new examples and theory are built in a well-motivated fashion and made relevant by many applications - to cryptography, coding, integration, history of mathematics, and especially to elementary and computational number theory. The later chapters include expositions of Rabin's probabilistic primality test, quadratic reciprocity, and the classification of finite fields. Over 900 exercises are found throughout the book.

Higher Algebra

Excerpt from Higher Algebra: A Sequel to Elementary Algebra for Schools The present work is intended as a sequel to our Elementary Algebra for Schools. The first few chapters are devoted to a fuller discussion of Ratio, Proportion, Variation, and the Progressions, which in the former work were treated in an elementary manner; and we have here introduced theorems and examples which are unsuitable for a first course of reading. From this point the work covers ground for the most part new to the student,

and enters upon subjects of special importance: these we have endeavoured to treat minutely and thoroughly, discussing both bookwork and examples with that fulness which we have always found necessary in our experience as teachers. It has been our aim to discuss all the essential parts as completely as possible within the limits of a single volume, but in a few Of the later chapters it has been im possible to find room for more than an introductory sketch in all such cases our Object has been to map out a suitable first course of reading, referring the student to special treatises for fuller information. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

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An Elementary Treatise on Algebra for the Use of the Students in High School and Colleges

Excerpt from An Elementary Treatise on Algebra, Theoretical and Practical: Adapted to the Instruction of Youth in Schools and Colleges When a number or quantity is produced by the multiplication of two or more factors it is called a composite number or quantity thus, 35 is a composite number, being produced by the product of 7 and 5 also. Bacx is a composite quantity, the factors of which are 5, a, c, and z. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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

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Algebra, an Elementary Text-book for the Higher Classes of Secondary Schools and for Colleges

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An University Algebra

Excerpt from An Elementary Treatise on Algebra Addition Simple Equations On the Solution of Simple Equations Problems Subtraction On the Solution of Simple Equations Multiplication On the Solution of Simple Equations Problems Division Problems producing Simple Equations Gear. 111. On Algebraic Fractions On the Addition, Subtraction, Multiplication, and Division. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

Higher Algebra

Excerpt from Elementary Algebra for the Use of Schools and Colleges As thus reconstructed, the book constitutes a rounded course in what may be called the newer elementary algebra, and includes all the subjects prescribed for admission to American Colleges and Schools of Technology. It will prove especially helpful to students preparing for such colleges as are using Mr. Smith's Treatise on Algebra for advanced work. The most important sources that have been drawn upon in the preparation of the new chapters are Professor Chrystal's text-book of Algebra and Mr. Smith's own larger book, the Treatise. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

A Concrete Introduction to Higher Algebra

This Is A New Release Of The Original 1891 Edition.

Higher Algebra

This textbook of Algebra is essentially for junior college and college students preparing for Science and Engineering courses. The treatise introduces the core higher algebraic concepts such as complex numbers, theory of equations, determinants, sequences and limits, etc. to equip students with mathematical acumen to move to the higher levels. The chapters are arranged in line with the reasoning followed by the authors, expecting the students to follow it.

Higher Algebra

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An Elementary Treatise on Algebra, in Theory and Practice

Excerpt from Mathematics for Engineers, Vol. 1: Including Elementary and Higher Algebra, Mensuration and Graphs, and Plane Trigonometry A most comprehensive and practical treatise on the subject. Great care has been taken to show the direct bearing of all principles to engineering practice, and the complete book will prove a valuable reference work embracing all the mathematics needed by engineers in their practice, and by students in all branches of engineering science. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.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.

An Elementary Treatise on Algebra, Theoretical and Practical

A Treatise on Algebra, Embracing, Besides the Elementary Principles, All the Higher Parts Usually Taught in Colleges; Containing Moreover, the New Method of Cubic and Higher Equations as Well as the Development and Application of the More Recently Discove