John E Freund39s Mathematical Statistics With Applications 7th Edition Solutions Manual

Dr. Euler's Fabulous FormulaFirst Course in the Theory of EquationsFirst Course in the Theory of Equations Paul Nahin Leonard Dickson LEONARD. E. DICKSON
Dr. Euler's Fabulous Formula First Course in the Theory of Equations First Course in the Theory of Equations *Paul Nahin Leonard Dickson LEONARD. E. DICKSON*

in the mid eighteenth century swiss born mathematician leonhard euler developed a formula so innovative and complex that it continues to inspire research discussion and even the occasional limerick dr euler s fabulous formula shares the fascinating story of this groundbreaking formula long regarded as the gold standard for mathematical beauty and shows why it still lies at the heart of complex number theory in some ways a sequel to nahin s an imaginary tale this book examines the many applications of complex numbers alongside intriguing stories from the history of mathematics dr euler s fabulous formula is accessible to any reader familiar with calculus and differential equations and promises to inspire mathematicians for years to come

the theory of equations is not only a necessity in the subsequent mathematical courses and their applications but furnishes an illuminating sequel to geometry algebra and analytic geometry moreover it develops anew and in greater detail various fundamental ideas of calculus for the simple but important case of polynomials the theory of equations therefore affords a useful supplement to differential calculus whether taken subsequently or simultaneously it was to meet the numerous needs of the student in regard to his earlier and future mathematical courses that the present book was planned with great care and after wide consultation it differs essentially from the author s elementary theory of equations both in regard to omissions and additions and since it is addressed to younger students and may be used parallel with a course in differential calculus simpler and more detailed proofs are now employed the exercises are simpler more numerous of greater variety and involve more practical applications this book throws important light on various elementary topics for example an alert student of geometry who has learned how to bisect any angle is apt to ask if every angle can be trisected with ruler and compasses and if not why not after learning how to construct regular polygons of 3 4 5 6 8 and 10 sides he will be inquisitive about the missing ones of 7 and 9 sides the teacher will be in a comfortable position if he knows the facts and what is involved in the simplest discussion to date of these questions as given in chapter iii other chapters throw needed light on various topics of algebra in particular the theory of graphs is presented in chapter v in a more scientific and practical manner than was possible in algebra and analytic geometry there is developed a method of computing a real root of an equation with minimum labor and with certainty as to the accuracy of all the decimals obtained we first find by horner s method successive transformed equations whose number is half of the desired number of significant figures of the root the final equation is reduced to a linear equation by applying to the constant term the correction computed from the omitted terms of the second and higher degrees and the work is completed by abridged division the method combines speed with control of accuracy newton s method which is presented from both the graphical

and the numerical standpoints has the advantage of being applicable also to equations which are not algebraic it is applied in detail to various such equations in order to locate or isolate the real roots of an equation we may employ a graph provided it be constructed scientifically or the theorems of descartes sturm and budan which are usually neither stated nor proved correctly the long chapter on determinants is independent of the earlier chapters the theory of a general system of linear equations is here presented also from the standpoint of matrices for valuable suggestions made after reading the preliminary manuscript of this book the author is greatly indebted to professor bussey of the university of minnesota professor roever of washington university professor kempner of the university of illinois and professor young of the university of chicago the revised manuscript was much improved after it was read critically by professor curtiss of northwestern university the author s thanks are due also to professor dresden of the university of wisconsin for various useful suggestions on the proof sheets

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