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this book presents analytical and approximate methods for complex dynamical systems and introduces ideas of discontinuous mapping treated as complex dynamical systems mathematicians of world recognized ukrainian scientific schools established by m krylov m bogolyubov yu mitropolskiy and a sharkovsky used to cooperate for writing the collective book whose purpose consists of illustrating a synergy of combining diverse by idea and technique constructive analytical and approximate approaches and methods in complex dynamical systems which are herein associated with mathematical models of networks conflict economic theories sloshing soft matter and even levitating drops readers are facilitated to learn contemporary insights fundamentals parts i and iii applications part ii and components of theories of bifurcation synchronization self

organization collective dynamics chaos solitons fractional differential equations symmetry reduced order modelling and many others that makes the book useful for both graduate and postgraduate students lecturers researchers and even engineers dealing with multidimensional dynamic systems

people problems and proofs are the lifeblood of theoretical computer science behind the computing devices and applications that have transformed our lives are clever algorithms and for every worthwhile algorithm there is a problem that it solves and a proof that it works before this proof there was an open problem can one create an efficient algorithm to solve the computational problem and finally behind these questions are the people who are excited about these fundamental issues in our computational world in this book the authors draw on their outstanding research and teaching experience to showcase some key people and ideas in the domain of theoretical computer science particularly in computational complexity and algorithms and related mathematical topics they show evidence of the considerable scholarship that supports this young field and they balance an impressive breadth of topics with the depth necessary to reveal the power and the relevance of the work described beyond this the authors discuss the sustained effort of their community revealing much about the culture of their field a career in theoretical computer science at the top level is a vocation the work is hard and in addition to the obvious requirements such as intellect and training the vignettes in this book demonstrate the importance of human factors such as personality instinct creativity ambition tenacity and luck the authors style is characterize d by personal observations enthusiasm and humor and this book will be a source of inspiration and guidance for graduate students and researchers engaged with or planning careers in theoretical computer science

all too often through common school mathematics students find themselves excelling in school math classes by memorizing formulas but not their applications or the motivation behind them as a consequence understanding derived in this manner is tragically based on little or no proof this is why studying proofs is paramount proofs help us understand the nature of mathematics and show us the key to appreciating its elegance but even getting past the concern of why should this be true students often face the question of when will i ever need this in life proofs in competition math aims to remedy these issues at a wide range of levels from the fundamentals of competition math all the way to the olympiad level and beyond don t worry if you don t know all of the math in this book there will be prerequisites for each skill level giving you a better idea of your current strengths and weaknesses and allowing you to set realistic goals as a math student so mathematical minds we set you off

time now will change the way you think about reality physicist and author colin gillespie brings together centuries of ancient thought and modern insights to unearth what is real and what is not he tells the story of our universe from the very beginning before the big bang and reveals to us a whole new view of time gillespie writes with humor and gives deft

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the original title for this work was mathematical literacy what is it and why you need it the current title reflects that there can be no real learning in any subject unless questions of who what when where why and how are raised in the minds of the learners the book is not a mathematical text and there are no assigned exercises or exams it is written for reasonably intelligent and curious individuals both those who value mathematics aware of its many important applications and others who have been inappropriately exposed to mathematics leading to indifference to the subject fear and even loathing these feelings are all consequences of meaningless presentations drill rote learning and being lost as the purpose of what is being studied mathematics education needs a radical reform there is more than one way to accomplish this here the author presents his approach of wrapping mathematical ideas in a story to learn one first must develop an interest in a problem and the curiosity to find how masters of mathematics have solved them what is necessary to be mathematically literate it s not about solving algebraic equations or even making a geometric proof these are valuable skills but not evidence of literacy we often seek answers but learning to ask pertinent questions is the road to mathematical literacy here is the good news new mathematical ideas have a way of finding applications this is known as the unreasonable effectiveness of mathematics

in spite of the amazing technological marvels of the modern world that have stemmed from science there is no agreed upon definition of what science is in this lively colorful and engaging work don degracia contends that science is a very weak form of what has been described for thousands of years in hindu india as samadhi samadhi is an advanced technique of raja yoga in which the meditating subject fuses with the object of meditation in a process that has been called knowing by being by understanding science as a weak form of samadhi and comparing it to the knowledge aquired from yogic practices many of the limitations of science are brought to the fore these include the link between mind and body the role of the senses as middle men between the mind and the objects of perception why mathematics is unreasonably effective for

describing the physical world and how and why power is unlocked by the human mind when correct knowledge is obtained

creative arts marketing third edition is a long awaited update of a classic and influential text a ground breaking book when first published it covers the core concepts of marketing and management as they apply to the arts and heritage industries with a depth that is still unrivalled with an emphasis on global case studies practical examples and discussion questions and an author team that draws from rich and varied experiences in the arts management sector the book serves as a text for students as much as it is a practitioner s guide to industry best practice extensively revised to reflect the dramatic changes to this industry this edition integrates organizational and management subject matter reflecting the marketing function s deeper involvement in broad organizational issues this fully updated and revised third edition features audience diversity and audience development the impact of digital technologies on the industry an exploration of the increasingly complex relationship between public and private funding for the arts ethics and sustainability issues for arts marketers cultural policy changes in the industry including a brand new companion website complete with materials for tutors and students for the first time the return of this important text will be welcomed by students tutors and professionals in the arts

more than two years into the life of the 2030 agenda for sustainable development this report calls for dramatic advances in statistics financing and policies for gender equality as well as more determined steps towards democratic governance and accountability based on robust data and expert analysis the report takes stock of where we stand on key aspects of gender equality globally tells us what is needed to monitor progress meaningfully and provides wideranging recommendations for change

first course in the theory of equations is an educational mathematics textbook that introduces students to the study of polynomial equations and their properties the book covers topics such as the roots of equations relationships between roots and coefficients symmetric functions factorization and methods for solving quadratic cubic and quartic equations along with the fundamental theorem of algebra written with clarity and a focus on problem solving it provides worked examples and techniques to help beginners build a solid foundation in algebra serving as a stepping stone to more advanced studies in abstract algebra and higher mathematics purpose introduces students to the theory of polynomial equations and their solutions key topics roots of polynomial equations relationships between roots and coefficients symmetric functions of roots approach emphasizes clear explanations worked examples and practical problem solving techniques audience undergraduate students or beginners studying algebra and the theory of equations impact provides a solid foundation for advanced algebra and higher mathematics studies

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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fundamentals of differential equations presents the basic theory of differential equations and offers a variety of modern

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over the years a number of books have been written on the theory of functional equations however very little has been published which helps readers to solve functional equations in mathematics competitions and mathematical problem solving this book fills that gap the student who encounters a functional equation on a mathematics contest will need to investigate solutions to the equation by finding all solutions or by showing that all solutions have a particular property the emphasis here will be on the development of those tools which are most useful in assigning a family of solutions to each functional equation in explicit form at the end of each chapter readers will find a list of problems associated with the material in that chapter the problems vary greatly with the easiest problems being accessible to any high school student who has read the chapter carefully the most difficult problems will be a reasonable challenge to advanced students studying for the international mathematical olympiad at the high school level or the william lowell putnam competition for university undergraduates the book ends with an appendix containing topics that provide a springboard for further investigation of the concepts of limits infinite series and continuity

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