

A First Course In Stochastic Processes Second Edition

A First Course in Differential Equations Applied Analog Electronics: A First Course In Electronics A First Course in Probability A First Course in Calculus A First Course In Discrete Mathematics Catalog A First Course in Optimization Introduction to Heat Transfer A first course in technical English Bulletin Letts's Housekeeping and Engagements Book for 1873 Annual Report of the Commissioner of Labor First Course in the Theory of Equations Fearless Cooking for Company A First Course in Analysis The Lancet First Course in the Theory of Equations Calendar Teaching Epidemiology A First Course in Fuzzy and Neural Control John David Logan Kevin Karplus Sheldon M. Ross Serge Lang Anderson Ian United States Naval Academy Charles Byrne Theodore L. Bergman Lynette Beardwood California. Department of Education United States. Bureau of Labor Leonard Eugene Dickson M. Evans John B. Conway Leonard E. Dickson University of Cape Town Jorn Olsen Hung T. Nguyen

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while the standard sophomore course on elementary differential equations is typically one semester in length most of the texts currently being used for these courses have evolved into calculus like presentations that include a large collection of methods and applications packaged with state of the art color graphics student solution manuals the latest fonts marginal notes and web based supplements all of this adds up to several hundred pages of text and can be very expensive many students do not have the time or desire to read voluminous texts and explore internet supplements that's what makes the format of this differential equations book unique it is a one semester brief treatment of the basic ideas models and solution methods its limited coverage places it somewhere between an outline and a detailed textbook the author writes concisely to the point and in plain language many worked examples and exercises are included a student who works through this primer will have the tools to go to the next level in applying odes to problems in engineering science and applied mathematics it will also give instructors who want more concise coverage an alternative to

existing texts this text also encourages students to use a computer algebra system to solve problems numerically it can be stated with certainty that the numerical solution of differential equations is a central activity in science and engineering and it is absolutely necessary to teach students scientific computation as early as possible templates of matlab programs that solve differential equations are given in an appendix maple and mathematica commands are given as well the author taught this material on several occasions to students who have had a standard three semester calculus sequence it has been well received by many students who appreciated having a small definitive parcel of material to learn moreover this text gives students the opportunity to start reading mathematics at a slightly higher level than experienced in pre calculus and calculus not every small detail is included therefore the book can be a bridge in their progress to study more advanced material at the junior senior level where books leave a lot to the reader and are not packaged with elementary formats j david logan is professor of mathematics at the university of nebraska lincoln he is the author of another recent undergraduate textbook applied partial differential equations 2nd edition springer 2004

this textbook is for a first course on electronics it assumes no prior electronics experience but does assume that students have had calculus 1 single variable differential calculus and high school physics a key idea of the course is that students need a lot of design experience and hands on work rather than a lot of theory the course is centered around the labs which are a mix of design labs and measurement modeling labs this unique volume takes students from knowing no electronics to being able to design and build amplifier and filter circuits for connecting sensors to microcontrollers within 20 weeks students design a digital thermometer a blood pressure meter an optical pulse monitor an ekg an audio preamplifier and a class d power amplifier they also learn how to measure and characterize components including impedance spectroscopy of a loudspeaker and of electrochemical electrodes related link s

this fifth edition of lang s book covers all the topics traditionally taught in the first year calculus sequence divided into five parts each section of a first course in calculus contains examples and applications relating to the topic covered in addition the rear of the book contains detailed solutions to a large number of the exercises allowing them to be used as worked out examples one of the main improvements over previous editions

this text is designed for a one semester course in optimization taken by advanced undergraduate and beginning graduate students in the mathematical sciences and engineering it teaches students the basics of continuous optimization and helps them better understand the mathematics from previous courses the book focuses on general problems and th

completely updated the sixth edition provides engineers with an in depth look at the key concepts in the field it incorporates new discussions on emerging areas of heat transfer discussing technologies that are related to nanotechnology biomedical engineering and alternative energy the example problems are also updated to better show how to apply the material and as engineers follow the rigorous and systematic problem solving methodology they ll gain an appreciation for the richness

and beauty of the discipline

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first course in the theory of equations large print by leonard e dickson this is a new printing of the classic book by dickson 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 we are delighted to publish this classic book as part of our extensive classic library collection many of the books in our collection have been out of print for decades and therefore have not been accessible to the general public the aim of our publishing program is to facilitate rapid access to this vast reservoir of literature and our view is that this is a significant literary work which deserves to be brought back into print after many decades the contents of the vast majority of titles in the classic library have been scanned from the original works to ensure a high quality product each title has been

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although the use of fuzzy control methods has grown nearly to the level of classical control the true understanding of fuzzy control lags seriously behind moreover most engineers are well versed in either traditional control or in fuzzy control rarely both each has applications for which it is better suited but without a good understanding of both engineers cannot make a sound determination of which technique to use for a given situation a first course in fuzzy and neural control is designed to build the foundation needed to make those decisions it begins with an introduction to standard control theory then makes a smooth transition to complex problems that require innovative fuzzy neural and fuzzy neural techniques for each method the authors clearly answer the questions what is this new control method why is it needed how is it implemented real world examples exercises and ideas for student projects reinforce the concepts presented developed from lecture notes for a highly successful course titled the fundamentals of soft computing the text is written in the same reader friendly style as the authors popular a first course in fuzzy logic text a first course in fuzzy and neural control requires only a basic background in mathematics and engineering and does not overwhelm students with unnecessary material but serves to motivate them toward more advanced studies

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