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A-1 Complex-Variable Concept A-3 A-1-5 Zeros of a Function The definition of a zero of a function can be stated as: If the function  $G(s)$  is analytic at  $s = s_i$ , it is said to have a zero of order  $r$  at  $s = s_i$  if the limit has a finite, nonzero value. Or, simply,  $G(s)$  has a zero of order  $r$  at  $s = s_i$  if  $1/G(s)$  has an  $r$ th-order pole at  $s = s_i$ .

### *Appendix A Complex Variable Theory*

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This best-selling introduction to automatic control systems has been updated to reflect the increasing use of computer-aided learning and design, and revised to feature a more accessible approach – without sacrificing depth.

A complete toolkit for teaching, learning, and understanding the essential concepts of automatic control systems Edition after acclaimed edition, Automatic Control Systems has delivered up-to-date, real-world coverage designed to introduce students to the fundamentals of control systems. More than a comprehensive text, Automatic Control Systems includes innovative virtual labs that replicate physical systems and sharpen readers' problem-solving skills. The Tenth Edition introduces the concept of Control Lab, which includes two classes of experiments: SIMLab (model-based simulation) and LEGOLab (physical experiments using LEGO® robots). These experiments are intended to supplement, or replace, the experimental exposure of the students in a traditional undergraduate control course and will allow

these students to do their work within the MATLAB® and Simulink® environment—even at home. This cost-effective approach may allow educational institutions to equip their labs with a number of LEGO test beds and maximize student access to the equipment at a fraction of the cost of currently available control system experiments. Alternatively, as a supplemental learning tool, students can take the equipment home and learn at their own pace. This new edition continues a tradition of excellence with:

- A greater number of solved examples
- Online labs using both LEGO MINDSTORMS® and MATLAB/SIMLab
- Enhancements to the easy-to-use MATLAB GUI software (ACSYS) to allow interface with LEGO MINDSTORMS
- A valuable introduction to the concept of Control Lab
- A logical organization, with Chapters 1 to 3 covering all background material and Chapters 4 to 11 presenting material directly related to the subject of control
- 10 online appendices, including Elementary Matrix Theory and Algebra, Control Lab, Difference Equations, and Mathematical Foundation
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Adopted by hundreds of universities and translated into at least nine languages, Automatic Control Systems remains the single-best resource for students to gain a practical understanding of the subject and to prepare them for the challenges they will one day face. For practicing engineers, it represents a clear, thorough, and current self-study resource that they will turn to again and again throughout their career. LEGO and MINDSTORMS are registered trademarks of the LEGO Group. MATLAB and Simulink are registered trademarks of The MathWorks, Inc.

This classroom-tested textbook is an introduction to probability theory, with the right balance between mathematical precision, probabilistic intuition, and concrete applications. Introduction to Probability covers the material precisely, while avoiding excessive technical details. After introducing the basic vocabulary of randomness, including events, probabilities, and random variables, the text offers the reader a first glimpse of the major theorems of the subject: the law of large numbers and the central limit theorem. The important probability distributions are introduced organically as they arise from applications. The discrete and continuous sides of probability are treated together to emphasize their similarities. Intended for students with a calculus background, the text teaches not only the nuts and bolts of probability theory and how to solve specific problems, but also why the methods of solution work.

Stresses the theory & application of control systems with a focus on conventional analysis & design methods, state variable methods, & digital control systems.

The Fourth edition of this well-received text continues to provide coherent and comprehensive coverage of digital circuits. It is designed for the undergraduate students pursuing courses in areas of engineering disciplines such as Electrical and Electronics, Electronics and Communication, Electronics and Instrumentation, Telecommunications, Medical Electronics, Computer Science and Engineering, Electronics, and Computers and Information Technology. It is also useful as a text for MCA, M.Sc. (Electronics) and M.Sc. (Computer Science) students. Appropriate for self study, the book is useful even for AMIE and grad IETE students. Written in a student-friendly style, the book provides an excellent introduction to digital concepts and basic design techniques of digital circuits. It discusses Boolean algebra concepts and their application to digital circuitry, and elaborates on both combinational and sequential circuits. It provides numerous fully worked-out, laboratory tested examples to give students a solid grounding in the related design concepts. It includes a number of short questions with answers, review questions, fill in the blanks with answers, multiple choice questions with answers and exercise problems at the end of each chapter.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For senior-level or first-year graduate-level courses in control analysis and design, and related courses within engineering, science, and management. Feedback Control of Dynamic Systems, Sixth Edition is perfect for practicing control engineers who wish to maintain their skills. This revision of a top-selling textbook on feedback control with the associated web site, FPE6e.com, provides greater instructor flexibility and student readability. Chapter 4 on A First Analysis of Feedback has been substantially rewritten to present the material in a more logical and effective manner. A new case study on biological control introduces an important new area to the students, and each chapter now includes a historical perspective to illustrate the origins of the field. As in earlier editions, the book has been updated so that solutions are based on the latest versions of MATLAB and SIMULINK. Finally, some of the more exotic topics have been moved to the web site.

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