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A practical guide for understanding and implementing industrial control strategies. Highly practical and applied, this Third Edition of Smith and Corripio's Principles and Practice of Automatic Process Control continues to present all the necessary theory for the successful practice of automatic process control. The authors discuss both introductory and advanced control strategies, and show how to apply those strategies in industrial examples drawn from their own professional practice. Now revised, this Third Edition features: * Expanded coverage of the development of dynamic balances (Chapter 3) * A new chapter on modeling and simulation (Chapter 13) * More extensive discussion of distributive control systems * New tuning exercises (Appendix D) * Guidelines for plant-wide control and two new design case studies (Appendix B) * New operating case studies (Appendix E) * Book Website containing simulations to practice the tuning of feedback controllers, cascade controllers, and feedforward controllers, and the MATLAB(r) files for simulation examples and problem With this text, you can: * Learn the mathematical tools used in the analysis and design of process control systems. * Gain a complete understanding of the steady state behavior of processes. * Develop dynamic mathematical process models that will help you in the analysis, design, and operation of control systems. * Understand how the basic components of control systems work. * Design and tune feedback controllers. * Apply a variety of techniques that enhance feedback control, including cascade control, ratio control, override control, selective control, feedforward control, multivariable control, and loop interaction. * Master the fundamentals of dynamic simulation of process control systems using MATLAB.

This text covers the practice of automatic process control and the fundamental principles of control theory. Throughout the book, the authors base the understanding of process dynamic response on the principles of material and energy balances, fluid flow, heat transfer, separation processes and reaction kinetics. Included are a generous number of case studies, problems and examples taken directly from actual professional experience.

This book introduces the principles and practices in automotive systems, including modern automotive systems that incorporate the latest trends in the automobile industry. The fifteen chapters present new and innovative methods to master the complexities of the vehicle of the future. Topics like vehicle classification, structure and layouts, engines, transmissions, braking, suspension and steering are illustrated with modern concepts, such as battery-electric, hybrid electric and fuel cell vehicles and vehicle maintenance practices. Each chapter is supported with examples, illustrative figures, multiple-choice questions and review questions. Aimed at senior undergraduate and graduate students in automotive/automobile engineering, mechanical engineering, electronics engineering, this book covers the following: Construction and working details of all modern as well as fundamental automotive systems Complexities of operation and assembly of various parts of automotive systems in a simplified manner Handling of automotive systems and integration of various components for smooth functioning of the vehicle Modern topics such as battery-electric, hybrid electric and fuel cell vehicles Illustrative examples, figures, multiple-choice questions and review questions at the end of each chapter

Centralized and Automatic Controls in Ships provide a non-mathematical basic introduction to the subject of control engineering applied in the marine field. This book is composed of 20 chapters that cover the basic principles of the equipment in ships. The opening chapters deal with ship components, construction, and commissioning routine for certain automated plant. The next chapters consider the basic principles of automatic control and controllers. These topics are followed by discussions on logic units and data processing equipment, other control elements, steam turbines, and diesel engines. Other chapters illustrate the application of control techniques to the major areas of the ship's machinery. The final chapters examine ship and ship's control system commissioning and maintenance. This book is an invaluable source for marine engineers and marine engineering students.

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient-lessons directly applicable to your organization. This book is divided into four sections: Introduction-Learn what site reliability engineering is and why it differs from conventional IT industry practices Principles-Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE) Practices-Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems Management-Explore Google's best practices for training, communication, and meetings that your organization can use

"Learn the six psychological secrets behind our powerful impulse to comply." - cover.

Offering the most practical applied treatment in the market, this book provides readers with the necessary theory for the successful practice of automatic process control. Both introductory and advanced control strategies are presented. The authors then clearly show how to apply the information in the field.

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