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for over 30 years He has written two well-respected books with Academic Press, Observers in Control Systems and Control System Design Guide, now in its fourth edition. He has contributed articles on the application of controls to numerous magazines, including Machine Design, Control Engineering, Motion Systems Design, Power Control and Intelligent Motion, and Electronic Design News. Explains how to model machines and processes, including how to measure working equipment, with an intuitive approach that avoids complex math Includes coverage on the interface between control systems and digital processors, reflecting the reality that most motion systems are now designed with PC software Of particular interest to the practicing engineer is the addition of new material on real-time, remote and networked control systems Teaches how control systems work at an intuitive level, including how to measure, model, and diagnose problems, all without the unnecessary math so common in this field Principles are taught in plain language and then demonstrated with dozens of software models so the reader fully comprehend the material (The models and software to replicate all material in the book is provided without charge by the author at [www.QxDesign.com](http://www.QxDesign.com)) New material includes practical uses of Rapid Control Prototypes (RCP) including extensive examples using National Instruments LabVIEW

This is a practical approach to control techniques. The author covers background material on

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analog controllers, digital controllers, and filters. Commonly used controllers are presented. Extended use of PSpice (a popular circuit simulation program) is used in problem solving. The book is also documented with 50 computer programs that circuit designers can use. Explains integration of control systems with a personal computer\*\*Compares numerous control algorithms in digital and analog form\*\*Details the use of SPICE in problem solving\*\*Presents modeling concepts for linear and nonlinear systems\*\*Examines commonly used controllers

Following on from the hugely successful previous editions, the third edition of Spacecraft Systems Engineering incorporates the most recent technological advances in spacecraft and satellite engineering. With emphasis on recent developments in space activities, this new edition has been completely revised. Every chapter has been updated and rewritten by an expert engineer in the field, with emphasis on the bus rather than the payload. Encompassing the fundamentals of spacecraft engineering, the book begins with front-end system-level issues, such as environment, mission analysis and system engineering, and progresses to a detailed examination of subsystem elements which represent the core of spacecraft design - mechanical, electrical, propulsion, thermal, control etc. This quantitative treatment is supplemented by an appreciation of the interactions between the elements, which deeply influence the process of spacecraft systems design. In particular the revised text includes \* A new chapter on small satellites engineering and applications which has been contributed by two internationally-recognised experts, with insights into small satellite systems engineering. \*

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Additions to the mission analysis chapter, treating issues of aero-manoeuvring, constellation design and small body missions. In summary, this is an outstanding textbook for aerospace engineering and design students, and offers essential reading for spacecraft engineers, designers and research scientists. The comprehensive approach provides an invaluable resource to spacecraft manufacturers and agencies across the world.

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