

Control System Design Guide

"Most texts on industrial control are long on theory and short on practice. This book is a rare gem that presents the theory—without overloading you on details—and then explains how to actually use the theory in practice."

— Amazon review of Third Edition

"...the new addition in this edition, rapid control prototyping for a motion system, is both timely and useful in smoothing the transition from simulation to an embedded, hardware solution."

— Zhiqiang Gao, Director, Center for Advanced Control Technologies, Cleveland State University

"...George Ellis has taken a huge step in bridging the theory-practice gap and putting control system design and implementation into the hands of every practicing engineer. ... this book, together with his companion book *Observers in Control Systems*, has shown how modern control design, integrated into the design process from the start, leads to optimum system performance, cost, and reliability."

— Kevin Craig, Professor of Mechanical Engineering, College of Engineering, Marquette University

- Learn to tune control systems using intuitive methods, avoiding abstract mathematical techniques
- Understand the key performance measures—how to make them, and what they mean for the final application
- Find out how to model machines and processes, including how to measure working equipment
- Includes more than 50 simulation models using freely available PC-based software to demonstrate key concepts
- New material on real-time control including Rapid Control Prototyping (RCP) and Hardware-in-the-loop (HIL)

Bridging the gap between complex, math-heavy control theory taught in formal courses and the efficient implementation required in real industry settings, **Control Systems Design Guide** has helped thousands of engineers to improve machine performance.

Updated for the first time in more than eight years, the book now includes cutting-edge control design scenarios, models and simulations, enabling applications from battle bots to solar collectors. New control system models, troubleshooting tips, and expanded coverage of complex systems requirements, such as increased speed and precision, have also been added to make it more practical than ever.

The fourth edition of this handy desk reference is ideal for electrical and mechanical engineers working in control systems and robotics, as well as serious electronics and engineering hobbyists.

About the author

George Ellis is Director of Technology Planning and Chief Engineer of Servo Systems at Kollmorgen Corporation, a leading provider of motion systems and components for original equipment manufacturers (OEMs) around the globe. He has designed and applied motion control systems professionally for over 25 years, written several books and contributed articles to magazines including *Machine Design*, *Control Engineering*, and *Electronic Design News*.

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