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"This is a program that focuses on all 3 modes of communication (interpersonal, presentational, interpretive) and was designed with the Common Core State Standards (CCSS) in mind."--Amazon/Publisher.

The field of control provides the principles and methods used to design physical and information systems that maintain desirable performance by sensing and automatically adapting to changes in the environment. This report spells out some of the prospects for control in the current and future technological environment, describes the role the field will play in military, commercial, and scientific applications over the next decade, and recommends actions required to enable new breakthroughs in engineering and technology through the application of control research. This brief yet thorough report provides renewed vision, a detailed list of new application areas, and specific recommendations for future research directions in control, dynamics, and systems, compiled by experts in the field.

This book employs the powerful and popular adaptive backstepping control technology to design controllers for dynamic uncertain systems with non-smooth nonlinearities. Various cases including systems with time-varying parameters, multi-inputs and multi-outputs, backlash, dead-zone, hysteresis and saturation are considered in design and analysis. For multi-inputs and multi-outputs systems, both centralized and decentralized controls are addressed. This book not only presents recent research results including theoretical success and practical development such as the proof of system stability and the improvement of system tracking and transient performance, but also gives self-contained coverage of

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fundamentals on the backstepping approach illustrated with simple examples. Detail description of methodologies for the construction of adaptive laws, feedback control laws and associated Lyapunov functions is systematically provided in each case. Approaches used for the analysis of system stability and tracking and transient performances are elaborated. Two case studies are presented to show how the presented theories are applied.

Let's make the "next normal" a "better normal" If there ever was a time for our heroic school leadership to persevere, it's now. Because now, well over one year since the pandemic stretched the resilience and reserves of our school systems, it's time to "rebound." It's time to leverage this once-in-a-lifetime opportunity to reboot teaching and learning as we know it so that we magnify the effective practices from the past while leveraging the so many recent lessons learned. This is where Doug Fisher, Nancy Frey, Dominique Smith, and John Hattie, coauthors of The Distance Learning Playbook series, are ideally equipped to serve as your collaborators. Inside *Leading the Rebound: 20+ Must-Dos to Restart Teaching and Learning* you'll find immediate actions, mindsets, and approaches to take if we're to reimagine and improve our schools and school systems. Step by step, you'll discover explicit guidance on how to:

1. Take care of yourself
2. Take stock and find the path
3. Rebuild teacher agency
4. Rebuild collective teacher efficacy
5. Foreground social and emotional learning
6. Change the learning loss narrative
7. Guide teacher clarity
8. Ensure instructional excellence
9. Use assessments for a range of purposes
10. Design and implement interventions
11. Win back parent-teacher relationships
12. Establish restorative practices
13. Avoid stealing the conflict
14. Enhance teacher-student and student-student interactions
15. Develop early warning systems for attendance, behavior, and course completion
16. Confront cognitive challenges to learning
17. Ensure equitable and restorative grading
18. Enhance PLCs
19. Provide empathetic feedback
20. Host honest

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performance conversations 21. Maintain your social presence 22. Future-proof teachers and students What's more Leading the Rebound is backed up with all kinds of resources--including VISIBLE LEARNING® research, sample planning tools, and other essential tips and strategies--to provide you with a start-to-finish roadmap for navigating this absolutely critical next leg in our journey toward a "better normal."

The HAL 2.0 teacher's manual (in print form) is designed to help get you started. It provides a high-level overview of how to implement the various components, and it breaks down key-teaching and learning strategies for each section of the student textbook. By instruction, it's ultimate purpose is to help more teachers and students succeed in Health and Physical Education and truly enjoy their H&PE experience both as teachers and as learners."--Page 6.

Robot Manipulator Control offers a complete survey of control systems for serial-link robot arms and acknowledges how robotic device performance hinges upon a well-developed control system. Containing over 750 essential equations, this thoroughly up-to-date Second Edition, the book explicates theoretical and mathematical requisites for controls design and summarizes current techniques in computer simulation and implementation of controllers. It also addresses procedures and issues in computed-torque, robust, adaptive, neural network, and force control. New chapters relay practical information on commercial robot manipulators and devices and cutting-edge methods in neural network control.

Offering a comprehensive, "step-by-step" approach to the subject, Business Statistics Using Excel, Second Edition, gives students the tools and skills they need to succeed in their coursework.

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FEATURES - "Techniques in Practice" exercises at the end of each chapter encourage self-assessment - Excel screenshots provide clear and helpful examples that illustrate how to apply Excel skills to business statistics - Full integration of Excel exercises and applications--both in the textbook and on the Companion Website--enable both classroom-led learning or self-directed study

NEW TO THIS EDITION - Expanded coverage of probability and probability distributions - Updated checklists help students to link the skills to their own development portfolios - All chapters have been fully revised and updated to include additional examples, explanations, and discussion questions - Greater emphasis on employability skills, which enables students to contextualize their learning and also helps them to identify how these skills can be applied and valued in real business environments

The accompanying Companion Website offers a variety of features:

For students:

- Introduction to Microsoft Excel 2010
- Self-test multiple-choice questions
- Data from the exercises in the book
- Links to key websites
- Online glossary
- Revision tips
- Visual walk-throughs

Numerical-skills workbook: New to the second edition, this online refresher course covering basic math and Microsoft Excel helps reinforce students' confidence in their mathematical ability

For instructors:

- Instructor's Manual containing a guide to structuring lectures and worked-out answers to exercises in the book
- PowerPoint slides
- A Testbank with thirty questions per chapter

This monograph describes the Reaction Wheel Pendulum, the newest inverted-pendulum-like device for control education and research. We discuss the history and background of the reaction wheel pendulum and other similar experimental devices. We develop mathematical models of the reaction wheel pendulum in depth, including linear and nonlinear models, and models of the sensors and actuators that are used for feedback control. We treat various aspects of the control problem, from linear control of the motor, to stabilization of the pendulum about an equilibrium

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configuration using linear control, to the nonlinear control problem of swingup control. We also discuss hybrid and switching control, which is useful for switching between the swingup and balance controllers. We also discuss important practical issues such as friction modeling and friction compensation, quantization of sensor signals, and saturation. This monograph can be used as a supplement for courses in feedback control at the undergraduate level, courses in mechatronics, or courses in linear and nonlinear state space control at the graduate level. It can also be used as a laboratory manual and as a reference for research in nonlinear control.

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