Stepping Motors: A Guide to Theory and Practice (Control Engineering) (Control, Robotics and Sensors)

By Paul Acarnely

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Stepping motor technology is well established and used for motion control, most notably for computer peripherals but also wherever digital control is employed. This book provides an introductory text which will enable the reader to both appreciate the essential characteristics of stepping motor systems and understand how these characteristics are being exploited in the continuing development of new motors, drives and controllers. A basic theoretical approach relating to the more significant aspects of performance is presented, although it is assumed throughout that the reader has no previous experience of electrical machines and is primarily interested in the applications of stepping motors. Paul Acarnley's outstanding reference book is widely known and used, and this, the 4th edition, has been significantly updated to include many new applications that have emerged since the previous edition was published. Coverage includes: drive circuits, accurate load positioning, static torque characteristics, multi-step operation, torque/ speed characteristics, high-speed operation, open-loop control, closed-loop control and microprocessor-based stepping motor systems.

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Editorial Review

Review
'the book is an excellent addition to the library of an engineer or graduate student seeking to understand stepper motors. It provides a succinct overview of the key concepts, and at a reasonable price too.' -- Mike Barnes International Journal of Electrical Engineering Education

About the Author
Paul Acarnley is Professor of Electric Drives at the University of Newcastle upon Tyne, UK. His interest in stepping motors started at Leeds University, with a Ph.D. on the torque-producing capabilities of variable-reluctance stepping motors, and continued at Cambridge University, with work on new closed-loop and microprocessor-based control techniques. Besides stepping motors, Paul Acarnley's research interests include the application in electric drives of methods for estimating and controlling speed, rotor position, flux, torque and temperature. He is a Fellow of the IET.

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