



Electronics: A Systems Approach

By Neil Storey

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The fifth edition of Electronics: A Systems Approach is an outstanding introduction to this fast-moving, important field. Fully updated, it covers the latest changes and developments in the world of electronics. It continues to use Neil Storey's well-respected systems approach, firstly explaining the electrical circuits concepts to build students' confidence and understanding, before looking at electronics systems. This allows the student to contextualise what the system is designed to achieve, before tackling the intricacies of the individual components. The book also offers an integrated treatment of analogue and digital electronics, highlighting and exploring the common ground between the two fields. New Premium Website: * Liven up your learning or revision with over 100 video tutorials that explain key concepts. * Test your knowledge with interactive quizzes. * Downloadable simulation demo files to use with exercises in the text. New Content: * A major new chapter on Communications including both analogue and digital techniques. * A new chapter on Electric Motors and Generators. * New sections on the Design of Sequential Logic and Implementing Complex Gates in CMOS. * An extended treatment of topics such as Power Dissipation in Digital Systems, Timers, Microcomputer Programming and System on a Chip (SOC) Devices. * New Further Study exercises at the end of each chapter, based on engaging real-world problems. Features: * Provides an integrated treatment of analogue and digital electronics, highlighting and exploring the common ground between the two fields. * Includes an introduction to basic electrical engineering circuits and components, so the book can be used as a stand-alone text for introductory courses in both Electronics and Electrical Engineering. * Learning is reinforced by chapter objectives and summaries throughout the book * Students encounter real-life applications through the worked examples and exercises.

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Editorial Review

From the Back Cover

Electronics plays a central role in our everyday lives. It is at the heart of almost all of today's essential technology, from mobile phones to computers and from cars to power stations. As such, all engineers, scientists and technologists need to have a fundamental understanding of this exciting subject, and for many this will just be the beginning.

Now in its fifth edition, *Electronics: A Systems Approach* provides an outstanding introduction to this fast-moving, important field. Comprehensively revised and updated to cover the latest developments in the world of electronics, the text continues to use Neil Storey's established and well-respected systems approach. It introduces the basic concepts first before progressing to a more advanced analysis, enabling the student to contextualise what a system is designed to achieve before tackling the intricacies of designing or analysing its various components with confidence.

Key features:

- Provides an integrated treatment of analogue and digital electronics, highlighting and exploring the common ground between the two fields.
- Contains a comprehensive introduction to basic electrical engineering circuits and components, permitting the book to be used as a stand-alone text for introductory courses in both Electronics and Electrical Engineering.
- Throughout the book learning is reinforced by chapter objectives, summaries, worked examples and exercises.

New for this edition:

- A major new chapter on Communications including both analogue and digital techniques.
- A new chapter on Electric Motors and Generators.
- New sections on the Design of Sequential Logic and Implementing Complex Gates in CMOS.
- An extended treatment of topics such as Power Dissipation in Digital Systems, Timers, Microcomputer Programming and System on a Chip (SOC) Devices.
- New Further Study exercises at the end of each chapter, based on engaging real-world problems.

This book is accompanied by a website which contains **over 100 video tutorials** to help explain key concepts from the book; interactive quizzes to test your knowledge; and downloadable simulation demo files to use with exercises in the text. Log in at www.pearsoned.co.uk/storey-elec to access these valuable resources, or use the QR codes to view the videos on your phone.

Dr. Neil Storey is a member of the School of Engineering at the University of Warwick, where he has many years of experience in teaching electronics to undergraduate, post-graduate and professional engineers. He is also the author of *Electrical and Electronic Systems* and *Safety-Critical Computer Systems*, both published by Pearson Education.

Users Review

From reader reviews:

Arthur Lee:

The feeling that you get from Electronics: A Systems Approach could be the more deep you looking the information that hide inside words the more you get enthusiastic about reading it. It doesn't mean that this book is hard to be aware of but Electronics: A Systems Approach giving you thrill feeling of reading. The copy writer conveys their point in particular way that can be understood simply by anyone who read the item because the author of this guide is well-known enough. This kind of book also makes your own vocabulary increase well. So it is easy to understand then can go to you, both in printed or e-book style are available. We propose you for having this Electronics: A Systems Approach instantly.

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