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Power electronics became
an identifiably separate area

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of electrical engineering with the invention of the thyristor about 30 years ago. The growing demand for controllability and conversion of electric energy has made this area

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increasingly important, which in turn has resulted in new device, circuit and control developments. In particular, new components, such as the GTO and power MOSFET, continue to extend

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power electronic technology to new applications. The technology embodied by the name "power electronics" is complex. It consists of both power level and signal level electronics, as well as

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thermal, mechanical, control, and protection systems. The power circuit, that part of the system actually processing energy, can be thought of as an amplifier around which is

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placed a closed loop control system. The goal of this book is to provide an easily understood exposition of the principles of power electronics. Common features of systems and

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their behavior are identified in order to facilitate understanding. Thyristor converters are distinguished and treated according to their mode of commutation. Circuits for various

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converters and their controls are presented, along with a description of ancillary circuits such as those required for snubbing and gate drives. Thermal and electrical properties of

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semiconductor power devices are discussed. The line-converter and converter-load interfaces are examined, leading to some general statements being made about energy transfer.

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Application areas are identified and categorized with respect to power and frequency ranges. The many tables presented in the book provide an easily used reference source.

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areas, such as civil engineering and health sciences. This edited book includes state-of-the-art accelerometers research and technologies for relevant applications. It is

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organized in eleven chapters describing leading-edge research in a cross-section of fields including: optical sensors development; motion capture; applications of accelerometers in the

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and the role of
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electrical engineering discipline that is especially geared toward the many non-electrical engineering students who take this course. The hallmark feature of the text is its liberal use

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of practical applications to illustrate important principles. The applications come from every field of engineering and feature exciting technologies such as Ohio State's world-record

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***Electrical Engineering 101 covers
the basic theory and practice of
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them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide

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step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as

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they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage

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of components Memory (RAM,
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speed design Board layout
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