



Microelectronic Circuits (Oxford Series in Electrical & Computer Engineering)

By Adel S. Sedra, Kenneth C. Smith

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Microelectronic Circuits, Sixth Edition, by Adel S. Sedra and Kenneth C. Smith

This market-leading textbook continues its standard of excellence and innovation built on the solid pedagogical foundation that instructors expect from Adel S. Sedra and Kenneth C. Smith. All material in the sixth edition of *Microelectronic Circuits* is thoroughly updated to reflect changes in technology--CMOS technology in particular. These technological changes have shaped the book's organization and topical coverage, making it the most current resource available for teaching tomorrow's engineers how to analyze and design electronic circuits.

Features:

- * **Streamlined organization.** Short, modular chapters can be rearranged to suit any class organization. Topics that can be skipped on a first reading, while the student is grasping the basics, or that look ahead to advanced industrial applications, are clearly marked.
- * **Digital Integrated Circuits covered in a new, separate section,** to make it easier to teach Computer Engineering students.
- * **Parallel Treatment of MOSFETs and BJTs.** 90% of the market works with MOSFETs, so this vital topic is placed first in the textbook. The chapters on BJTs and MOSFETs are exactly parallel, so instructors can teach whichever one first that they prefer, and speed through the second topic by concentrating only on the differences between the two transistors.
- * **Frequency response in a separate chapter.** Frequency response is now condensed into a single chapter, rather than being integrated within other topics.

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- * PowerPoint Overheads on CD contain all of the figures with captions, plus

summary tables, from the main text.

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- * In-text CD contains SPICE circuit simulation exercises and lessons, and a free student version of two SPICE simulators: OrCAD PSpice and Electronics Workbench Multisim.
- * Companion website www.sedrasmith.org <http://www.sedrasmith.org> features SPICE models and links to industry and academic sites.

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Editorial Review

About the Author

Adel S. Sedra is Dean of the Faculty of Engineering at the University of Waterloo and former Provost of the University of Toronto.

Kenneth C. Smith (KC) is Professor Emeritus in Electrical and Computer Engineering, Computer Science, Mechanical Engineering, and Information Studies at the University of Toronto.

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