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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 international 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 in addition end of chapter problems unique to this version of the text help preserve the integrity of instructor assignments

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this book provides an exceptionally clear introduction to dc ac circuits supported by superior exercises examples and illustrations and an emphasis on troubleshooting and applications it features an exciting full color format which uses color to enhance the instructional value of photographs illustrations tables charts and graphs throughout the book s coverage the use of mathematics is limited to only those concepts that are needed for understanding floyd s acclaimed troubleshooting emphasis as always provides learners with the problem solving experience they need for a successful career in electronics chapter topics cover components quantities and units voltage current and resistance ohm s law energy and power series circuits parallel circuits series parallel circuits circuit theorems and conversions branch mesh and node analysis magnetism and electromagnetism an introduction to alternating current and voltage phasors and complex numbers capacitors inductors transformers rc circuits rl circuits rlc circuits and resonance basic filters circuit theorems in ac analysis pulse response of reactive circuits and polyphase systems in power applications for electronics technicians electronics teachers and electronics hobbyists

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