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*"Electronics: Principles and
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principles and applications*

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of analog devices, circuits and systems. Like earlier editions, the Sixth Edition combines theory with real world applications in a well-paced sequence that introduces students to such topics as semiconductors, op

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gone wrong in America in the past and what is necessary for our economic health to flourish. Cybernetics—the science of communication and control as it applies to machines and to humans—originates from efforts

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during World War II to build automatic anti-aircraft systems. Following the war, this science extended beyond military needs to examine all systems that rely on information and feedback, from the level of the cell to that of society. In

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The Cybernetics Moment, Ronald R. Kline, a senior historian of technology, examines the intellectual and cultural history of cybernetics and information theory, whose language of "information," "feedback," and "control"

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transformed the idiom of the sciences, hastened the development of information technologies, and laid the conceptual foundation for what we now call the Information Age. Kline argues that, for about twenty years

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after 1950, the growth of cybernetics and information theory and ever-more-powerful computers produced a utopian information narrative—an enthusiasm for information science that influenced natural scientists, social scientists,

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engineers, humanists,
policymakers, public intellectuals,
and journalists, all of whom
struggled to come to grips with new
relationships between humans and
intelligent machines. Kline traces
the relationship between the

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invention of computers and communication systems and the rise, decline, and transformation of cybernetics by analyzing the lives and work of such notables as Norbert Wiener, Claude Shannon, Warren McCulloch, Margaret Mead,

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Gregory Bateson, and Herbert Simon. Ultimately, he reveals the crucial role played by the cybernetics moment—when cybernetics and information theory were seen as universal sciences—in setting the stage for our current

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Concurrent Engineering (CE) is based on the premise that different phases of a product's lifecycle should be conducted concurrently and initiated as early as possible within the Product Creation

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Process (PCP). It has become the substantive basic methodology in many industries, including automotive, aerospace, machinery, shipbuilding, consumer goods, process industry and environmental engineering. CE aims to increase the efficiency of the PCP and reduce errors in later phases while

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incorporating considerations for full lifecycle and through-life operations. This book presents the proceedings of the 22nd ISPE Inc. (International Society for Productivity Enhancement) International Conference on Concurrent Engineering (CE2015) entitled 'Transdisciplinary Lifecycle Analysis of Systems', and held in

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Delft, the Netherlands, in July 2015. It is the second in the series 'Advances in Transdisciplinary Engineering'. The book includes 63 peer reviewed papers and 2 keynote speeches arranged in 10 sections: keynote speeches; systems engineering; customization and variability management; production oriented design,

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