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impact of these devices on the rapidly growing field of depth based computer vision *Power Electronics Basics* Yuriy Rozanov, Sergey E. Ryvkin, Evgeny Chaplygin, Pavel Voronin, 2015-04-23 *Power Electronics Basics Operating Principles Design Formulas and Applications* provides fundamental knowledge for the analysis and design of modern power electronic devices This concise and user friendly resource Explains the basic concepts and most important terms of power electronics Describes the power assemblies control and passive compon **Essentials of Modern Communications** Djafar K. Mynbaev, Lowell L. Scheiner, 2020-08-04 Explore Modern Communications and Understand Principles of Operations Appropriate Technologies and Elements of Design of Communication Systems Modern society requires a different set of communication systems than has any previous generation To maintain and improve the contemporary communication systems that meet ever changing requirements engineers need to know how to recognize and solve cardinal problems In *Essentials of Modern Communications* readers will learn how modern communication has expanded and will discover where it is likely to go in the future By discussing the fundamental principles methods and techniques used in various communication systems this book helps engineers assess troubleshoot and fix problems that are likely to occur In this reference readers will learn about topics like How communication systems respond in time and frequency domains Principles of analog and digital modulations Application of spectral analysis to modern communication systems based on the Fourier series and Fourier transform Specific examples and problems with discussions around their optimal solutions limitations and applications Approaches to solving the concrete engineering problems of modern communications based on critical logical creative and out of box thinking For readers looking for a resource on the fundamentals of modern communications and the possible issues they face *Essentials of Modern Communications* is instrumental in educating on real life problems that engineering students and professionals are likely to encounter **The 1992 World Administrative Radio Conference** United States. Congress. Office of Technology Assessment, 1991 **Fundamentals of Communications Systems** Michael P. Fitz, 2007-04-30 Get a Solid Account of Physical Layer Communications Theory Illustrated with Numerous Interactive MATLAB Mini Projects You can rely on *Fundamentals of Communications Systems* for a solid introduction to physical layer communications theory filled with modern implementations and MATLAB examples This state of the art guide covers essential theory and current engineering practice carefully explaining the real world tradeoffs necessary among performance spectral efficiency and complexity Written by an award winning communications expert the book first takes readers through analog communications basics amplitude modulations analog angle modulation and random processes This essential resource then explains noise in bandpass communications systems bandpass Gaussian random processes digital communications basics complexity of optimum demodulation spectrally efficient data transmission and more *Fundamentals of Communications Systems* features A modern approach to communications theory reflecting current engineering applications Numerous MATLAB problems integrated throughout with software available for download Detailed coverage of tradeoffs among performance spectral

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Wireless Power Transmission for Sustainable Electronics Nuno Borges Carvalho,Apostolos Georgiadis,2020-02-19

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