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1. This modulation

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Modulation

Techniques

Applications of Pulse Width Modulation are light dimming, power control, speed control of motor etc. Pulse Width Modulation is a technique of creating modulated electronic pulses or the electronic pulses of the desired width.

working of PWM is

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broadcasting of FM
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ratio. Telemetry, radar and seismic prospecting, EEG monitoring of newborns etc also use the technique of frequency modulation.

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What is Modulation?

Answer. The term

modulation means 'to change' or 'to modify'.

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demand for new services with increased functionality, the development of more efficient measurement techniques has become of paramount importance. This practical resource details the cutting-edge Modulated Scatterer Technique, which offers a low-

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This practical resource provides an overview of machine learning (ML)

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processing (beamforming and detection of angle of arrival), antenna optimization, wave propagation, remote sensing, radar, and other aspects of electromagnetic design are explored. An introduction to machine learning principles and the most common

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generative adversarial networks.

Applications in electromagnetics and antenna array processing that are solved using machine learning are

discussed, including antennas, remote sensing, and target classification.

Introduces chaos

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theory, its analytical methods and them means to apply chaos to the switching power supply design. DC-DC converters are typical switching systems which have plenty of nonlinear behaviors, such as bifurcation and chaos. Thenonlinear behaviors of DC-DC converters have been

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studied heavily over the past 20 years, yet researchers are still unsure of the practical application of bifurcations and chaos in switching converters.

The electromagnetic interference (EMI), which resulted from the high rates of changes of voltage and current, has

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become a major design criterion in DC-DC converters due to wide applications of various electronic devices in industry and daily life, and the question of how to reduce the annoying, harmful EMI has attracted much research interest. This book focuses on the analysis

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and application of chaos to reduce harmful EMI of DC-DC converters. After a review of the fundamentals of chaos behaviors of DC-DC converters, the authors present some recent findings such as Symbolic Entropy, Complexity and Chaos Point Process, to analyze the

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characters of chaotic DC-DC converters. Using these methods, the statistic characters of chaotic DC-DC converters are extracted and the foundations for the following researches of chaotic EMI suppression are reinforced. The focus then transfers to estimating the power

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to suppress EMI of switching converters
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between numerical theory and real-world applications, enabling power electronics designers to both analyze the effects of chaos and leverage these effects to reduce EMI

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techniques, characterization and modelling of nonlinear distortion in microwave power transistors and design of high-power and spectrum-efficient RF power amplifiers for future wireless communication systems. Further enlists the key impediments in Power

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