



Power Electronics: Devices and Circuits

By V. Jagannathan

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It is designed for undergraduate students of electrical and electronics engineering and provides an accessible and practical treatment of semiconductor power switching devices and their use in several types of static power converters. The book emphasizes the fundamental principles and offers an easy-to-understand explanation of the operation of practical circuits. Beginning with the study of the characteristics of power switching devices, the text offers a thorough treatment of ac - ac converters, ac - dc converters, dc - dc converters and inverters, helping students understand how switching converters can be made to generate almost any wave shape and frequency, how power converters are used in conjunction with electric drives, HVDC transmission systems, and so forth.

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