



voltage source converter: modulation, control and applications in power systems

Dr Grain Philip/Adam

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In the last two decades, the uses of voltage source converter in power systems have increased significantly in electricity generation, transmission and distribution systems. These increases are expected to continue with the current trend toward decentralized power systems, increased penetration of renewable power into ac grids, smart grids and dc grids. Such increases in the uses of the power electronic devices and systems in today and future power systems are expected to alter ac grids characteristics and responses to major disturbances. Understanding behaviour of ac grids with such increased complexity requires new generations of power systems and power electronics engineers, with greater knowledge of both power electronics and power systems. This book is written with the primary objective of describing the aspects of the traditional and emerging voltage source converters, which are relevant to system focus readers, without ignoring some of the important device aspects from the converter modelling and system prospective. In addition, this book covered most of the recent developments in the voltage source converters and high-voltage dc transmission systems, with the intention of shortening the learning curve for many readers. The first chapters of this book are devoted to key device aspects such as operating principles and modulation strategies, modelling approaches that are applicable to different voltage source converters and their attributes and limitations, and control strategies. The later chapters focus in applications of these converters in power systems. The expected beneficiaries from the materials presented in this book are final years electrical and electronic engineering students, post-graduate masters and research students, power electronic systems and power systems engineers, research and development engineers, and professional and practitioners working within consultancies.

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