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Energy Efficiency Design Guide for California Detention Facilities, 2001 **Variable Frequency Drive Applications Guide**, 1991 Traditionally fans and pumps have been designed to be capable of handling the maximum demand of the system in which they are installed However quite often the actual demand can vary and it can be much lower than the original design capacity These situations have been corrected in the past through additions of outlet dampers to fans or throttling valves to pumps While these can be effective and simple controls they severely affect the efficiency of the system Variable frequency speed is the most efficient means of capacity control The most cost effective method of achieving variable speed capacity control is using AC adjustable frequency drives AC adjustable frequency controls convert any fixed speed AC motor into an adjustable speed device Adjusting the speed of a motor by controlling the frequency of the AC power to that motor reduces its horsepower requirements According to pump and fan laws capacity is proportional to speed while horsepower is proportional to the cube of the speed Therefore by reducing the speed of an AC motor by 20 percent the horsepower requirement is reduced by nearly 50 percent Reduced speed through variable frequency control allows for flexibility of meeting changing weather and comfort requirements without operating costly equipment at full capacity

Power Transmission Design Handbook ,1995 HVAC Commissioning Guidebook Maija Virta, 2021-03-31 Green buildings have become common in India and other countries in Asia However there is a concern regarding the performance of green buildings failing to meet the expectations of clients during the operation One of the key reasons for this is poorly commissioned HVAC systems In this publication we provide tools and knowhow for more efficient HVAC commissioning It gives answers for four major questions why commissioning is needed how to perform proper commissioning which key performance issues of common HVAC equipment need to be considered and what kind of checklists are used during commissioning It covers the entire commissioning process beginning with the owner's project requirements and commissioning design reviews Then it explains procedures during installation and start up of equipment followed by the functional performance testing seasonal commissioning and 10 months operation review This publication is developed by Indian Society of Heating Refrigeration and Air Conditioning Engineers ISHRAE for Indian and Asian requirements in conjunction with the Federation of European HVAC Associations REHVA The process steps described in this publication are in line with all major international building standards and green building certification schemes Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka *Grounds for Grounding* Elya B. 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The book begins by explaining the features of the electric drive system and trends of development in related technologies as well as the basic structure and operation principles of the electric machine It also addresses steady state characteristics and control of the machines and the transformation of physical variables of AC machines using reference frame theory in order to provide a proper foundation for the material The heart of the book reviews several control algorithms of electric machines and power converters explaining active damping and how to regulate current speed and position in a feedback manner Seung Ki Sul introduces tricks to enhance the control performance of the electric machines and the algorithm to detect the phase angle of an AC source and to control DC link voltages of power converters Topics also covered are Vector control Control algorithms for position speed sensorless drive of AC machines Methods for identifying the parameters of electric machines and power converters The matrix algebra to model a three phase AC machine in d q n axes Every chapter features exercise problems drawn from actual industry experience The book also includes more than 300 figures and offers access to an FTP site which provides MATLAB programs for selected problems The book s practicality and realworld relatability make it an invaluable resource for professionals and engineers involved in the research and development of electric machine drive business industrial drive designers and senior undergraduate and graduate students To obtain instructor materials please send an email to pressbooks ieee org To visit this book s FTP site to download MATLAB codes please click on this link ftp ftp wiley com public sci tech med electric machine MATLAB codes are also downloadable

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