



# Dubai Electricity & Water Authority

## Distribution Services Department



# Distribution Substation Guideline

YEAR 2008 — 1<sup>st</sup> Edition

# Distribution Substation Guideline Dewa

**Michael Waters**



## **Distribution Substation Guideline Dewa:**

**Dubai Energy Policy Laws and Regulations Handbook Volume 1 Strategic Information and Regulations** IBP, Inc., 2016-05-27 2011 Updated Reprint Updated Annually Dubai Energy Policy Laws and Regulations Handbook **The Essential Guide to the Dubai Real Estate Market** Michael Waters, 2023-03-21 This is the first book to fully present analyse and interpret the Dubai real estate market Dubai is fast becoming one of the world's most attractive places to invest in real estate and this book examines the market from three interlinked sectors that drive its performance occupiers investors and developers It examines the market's historical growth and lays the foundations to examine future trends The book provides a synopsis of Dubai's market practices economic trends and social change that impacts the value of real estate Chapters also debate issues such as property investment house price performance local valuation practices spatial planning the economics of the city market practices and regulation property led economic growth and future trends such as sustainability and digitalization This book offers a comprehensive in depth and up to date account of the Dubai property market and presents a full assessment of the investment potential of Dubai real estate It is a must read for students academics and real estate professionals interested in this fascinating real estate market that has implications for both Dubai and wider GCC markets as well as the international investment market and senior professionals who come to work in the region *The Advertisers' Guide to the Middle East*, 1996 *Indonesia Business Guide*, 2007-2008, 2007

*Climatological Data*, 1965 **The Electrical Review**, 1940 **Monthly Catalog of United States Government Publications**, 1951 **Telegraphic Journal and Monthly Illustrated Review of Electrical Science**, 1941 **Railway Gazette**, 1948 *MEED.*, 2007 *The Engineer*, 1951 *United States Government Publications Monthly Catalog* Edward Przebienda, 1971 *Middle East Economic Digest*, 2004 *Science Abstracts*, 1993 **Decennial Cumulative Personal Author Index 1951-1960** Edward Przebienda, 1971 *IEEE Membership Directory* Institute of Electrical and Electronics Engineers, 1983 **Electrical Power Distribution** Hidaia Alassouli, 2018-01-24 This book includes my lecture notes for electrical power distribution book The fundamentals of electrical power distribution are applied to various distribution system layouts and the function of common distribution system substations and equipment The book introduces the design procedures and protection methods for power distribution systems of consumer installations Circuit simulation and practical laboratories are utilised to reinforce concepts The book is divided to different learning outcomes CLO 1 Discuss the fundamental concepts related to electrical distribution systems CLO 2 Explain the role of distribution substations and related equipment CLO 3 Outline standard methods for power distribution to consumer installations CLO 4 Apply short circuit and over load protection principles for electrical installations a CLO1 Discuss the fundamental concepts related to electrical distribution systems Explain the role of the distribution system in a power system common distribution system layouts and common voltages voltage drops and regulation levels from transmission to distribution Discuss demand power

quality issues calculate factors affecting design and interpret the load curve profile for load demand Explain how tariff is calculated and charged consumers b CLO2 Explain the role of distribution substations and related equipment Explain the function of the distribution substation in view of distribution system layout Explain the use of transmission grid primary and distribution substations a power system Explain the use of various types of bus bar configurations in distribution substations Discuss the use of cabling transformers circuit breakers switches reclosers and sectionalisers in a distribution system c CLO3 Outline standard methods for power distribution to consumer installations Discuss commonly used methods for low voltage power supply systems TN TN C TN C S and TT Discuss the main features of a one line electrical installation diagram and related symbols Discuss electrical color codes and factors affecting cable installations Design an electrical feeder by 1 selecting the design current 2 selecting the overload current protection 3 determining the applicable correction factors 4 selecting the current carrying capacity of cable and cable sizing and 5 calculating the allowable voltage drop in feeder d CLO4 Apply short circuit and over load protection principles for electrical installations Explain the meaning of overload and over current and methods of protection Discuss the nature of electric shock need for earthing earth loop impedance and principle of protective multiple earthing Explain the principles of fuse MCB selection in relation to feeder protection under overload and short circuit fault conditions Explain the operation of earth leakage circuit breakers ELCB and residual current device RCD Author Dr Hidaia alassouli Email [hidaia\\_alassouli@hotmail.com](mailto:hidaia_alassouli@hotmail.com) Distribution of Electrical Power Hidaia Alassouli, 2018-02-12 This book includes my lecture notes for electrical power distribution book The fundamentals of electrical power distribution are applied to various distribution system layouts and the function of common distribution system substations and equipment The book introduces the design procedures and protection methods for power distribution systems of consumer installations Circuit simulation and practical laboratories are utilised to reinforce concepts The book is divided to different learning outcomes CLO 1 Discuss the fundamental concepts related to electrical distribution systems CLO 2 Explain the role of distribution substations and related equipment CLO 3 Outline standard methods for power distribution to consumer installations CLO 4 Apply short circuit and over load protection principles for electrical installationsa CLO1 Discuss the fundamental concepts related to electrical distribution systems Principle of operation of transformers Explain the role of the distribution system in a power system common distribution system layouts and common voltages voltage drops and regulation levels from transmission to distribution Discuss demand power quality issues calculate factors affecting design and interpret the load curve profile for load demand Explain how tariff is calculated and charged consumersb CLO2 Explain the role of distribution substations and related equipment Explain the function of the distribution substation in view of distribution system layout Explain the use of transmission grid primary and distribution substations a power system Explain the use of various types of bus bar configurations in distribution substations Discuss the use of cabling transformers circuit breakers switches reclosers and sectionalisers in a distribution system c CLO3 Outline standard methods

for power distribution to consumer installations Discuss commonly used methods for low voltage power supply systems TN TN C TN C S and TT Discuss the main features of a one line electrical installation diagram and related symbols Discuss electrical color codes and factors affecting cable installations Design an electrical feeder by 1 selecting the design current 2 selecting the overload current protection 3 determining the applicable correction factors 4 selecting the current carrying capacity of cable and cable sizing and 5 calculating the allowable voltage drop in feederd CLO4 Apply short circuit and over load protection principles for electrical installations Explain the meaning of overload and over current and methods of protection Discuss the nature of electric shock need for earthing earth loop impedance and principle of protective multiple earthing Explain the principles of fuse MCB selection in relation to feeder protection under overload and short circuit fault conditions Explain the operation of earth leakage circuit breakers ELCB and residual current device RCD

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