

ABOUT THE BOOK

Electrical Machines Lab Manual with Matlab® Programs is a book for an alternate way of learning the subject to all engineering students. It explains the basic types of electrical machines, such as transformer, DC machine, induction machines, synchronous machine and low-power motors operated at single phase AC systems. It provides a basic knowledge of electrical machines along with the experimental details performed on these machines. To get different external and internal characteristics of these machines in the lab, systematic procedure is explained and the results are validated with Matlab® programs.

This book discusses the basics, constructional features, principle of operation of these machines, relevant theory, the procedure of performing experiments, observations and results analysis, Matlab® programs codes.

ABOUT THE AUTHOR

Dr. D.K. Chaturvedi graduated in Electrical Engineering from Govt. Engineering College Ujjain, and did M.Tech. in Engineering Systems and Management followed by Ph.D. in Electrical Power systems from Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra. Presently, he is working as professor at Faculty of Engineering, D.E.I., Dayalbagh. He has won several awards and recognitions. He was awarded BOYSCAST fellowship of Department of Science and Technology, Govt. of India in 2001.

He is regularly visiting as research fellow of University of Calgary, AB, Canada. He has many National and International research collaborations in the area of modeling and simulations, soft computing, intelligent adaptive Control systems, and optimization. He had organized many national seminars and workshops.

His name is included in Marquis who's who in Engineering and Science in Asia, Marquis Who's Who in Engineering and Science in America, Marquis Who's Who in World—2006-2007. He is Fellow Member of The Institution of Engineers (India), and member of many professional bodies such as IEEE, IEE, ISTE, Indian Society of Continuing Engineering Education, SCEE, Aeronautical Society of India, and System Society of India.



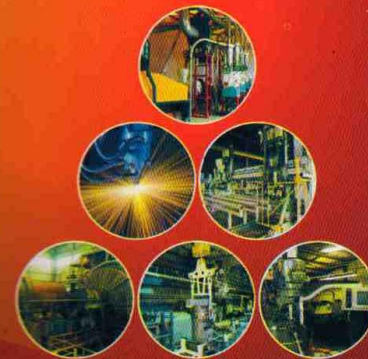
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