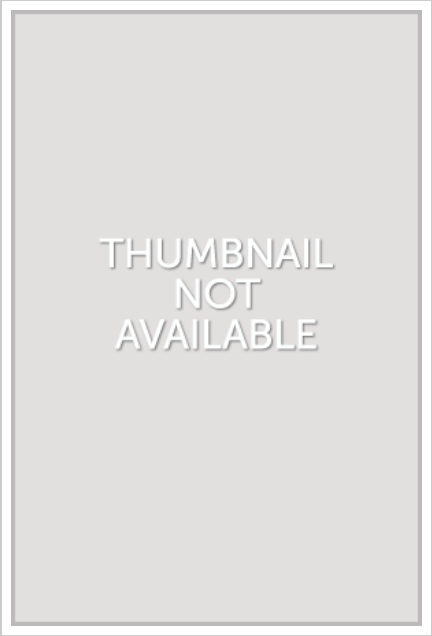

Electromagnetic Theory for Telecommunications

By C.S. Liu & V.K. Tripathi

Cambridge University Press/Foundation Books, 2007. Softcover. Book Condition: New. First edition. This book presents the fundamental principles and applications of electromagnetic theory, with emphasis on applications in communication. The underlying theory for technological advances like medium and short wave communication, cellular communication, radar and satellite communication, laser and optical communication, remote sensing and geological and earth observing applications have also been explained lucidly. Thus, given the breadth of its coverage, besides being used as a textbook for electrodynamics for beginner and advanced undergraduate students of physics and engineering, this book may also serve as an effective reference source for telecommunication engineers, physicists and researchers. Key features - rigorous mathematical details provided for involved physical concepts - In-text problem with complete solutions at relevant places in the chapters - unsolved problems with hints and answers - list of references at the end of each unit for interested readers - extensive figures annotating the text Contents Preface 1 Electromagnetic Fields 2 Plane Waves 3 Guided Waves 4 Radiation 5 Radio Communication and Radar 6 Satellite Communication 7 Laser and Optical Fibre Communication 8 Geological Seisming and Remote Sensing 9 Relativistic Covariance of Electrodynamics 10 Radiation from Accelerated Charges Appendix A Appendix B...

Reviews

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