

# **Electricity, Magnetism and Electromagnetic Theory**

By Prof Shobhit Mahajan, Prof S Rai Choudhary



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Electricity, Magnetism and Electromagnetic Theory by Dr. Shobhit Mahajan and Dr. S. Rai Choudhury lays emphasis on fundamental principles in simple and lucid language. It provides comprehensive coverage to all the important topics of the subject such as Electric Fields, Electric Potential, Electric Fields in matter, Electrostatics, Charges in Motion, Magnetic Field, Electromagnetic Induction, Alternating current, Maxwell's equations, Relativity and Electrodynamics. Lucid language with updated and focused coverage to Electromagnetic Theory along with large number of solved and unsolved problems. Important concepts highlighted in boxed items with stepwise solved examples are the main USP of the text book.



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About the Author

"Professor Shobhit Mahajan received his Masters and Doctorate degrees in Physics from the University of California, Berkeley. He has taught at St. Stephen's College, Delhi and is currently Professor of Physics at the Department of Physics & Astrophysics, University of Delhi. He has worked in the fields of astroparticle physics, cosmology and particle physics. Professor Mahajan has been the author of numerous articles on Science & Technology and has been a consulting editor for Down to Earth magazine. In addition, he has written more than a dozen books on popular science titles and has served as a consultant for television shows and documentary series. Professor S Rai Choudhury received his Masters and Doctorate degrees in Physics from the University of Delhi. Subsequently, he has held Postdoctoral research and faculty positions at Moscow State University, Princeton University (USA), University of Michigan (USA), Purdue University (USA), Rockefeller University (USA), University of Melbourne (Australia). Professor Choudhury has authored many research papers in internationally recognised journals. He has been a Professor of Physics at the University of Delhi till 2006. He was a Ramanna fellow of the Department of Science and Technology (Govt. of India) from 2006 to 2009 and since 2009 Professor of Physics at the Indian Institute of Science Education and Research (IISER) Bhopal, M.P. Professor Choudhury has been an Associate of the International Centre of Theoretical Physics, Trieste, Italy and a Senior Associate during 1981–1987. He was elected Fellow of the Indian Academy of Sciences, Bangalore in 1986. Professor Mahajan and Prof. Choudhury have co-authored (along with A. Beiser), Concepts of Modern Physics, 6E, SIE, in 2009."

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