



Mathematical Models and Numerical Simulation in Electromagnetism

By Alfredo Bermúdez de Castro

Springer Dez 2013, 2013. Taschenbuch. Book Condition: Neu. 23.5x15.5x cm. This item is printed on demand - Print on Demand Neuware - The book represents a basic support for a master course in electromagnetism oriented to numerical simulation. The main goal of the book is that the reader knows the boundary-value problems of partial differential equations that should be solved in order to perform computer simulation of electromagnetic processes. Moreover it includes a part devoted to electric circuit theory based on ordinary differential equations. The book is mainly oriented to electric engineering applications, going from the general to the specific, namely, from the full Maxwell's equations to the particular cases of electrostatics, direct current, magnetostatics and eddy currents models. Apart from standard exercises related to analytical calculus, the book includes some others oriented to real-life applications solved with MaxFEM free simulation software. 432 pp. Englisch.

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