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Although topology was recognized by Gauss and Maxwell to play a pivotal role in the formulation of electromagnetic boundary value problems, it is a largely unexploited tool for field computation. The development of algebraic topology since Maxwell provides a framework for linking data structures, algorithms, and computation to topological aspects of three-dimensional electromagnetic boundary value problems.

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**A ...**

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Theory and Computation of Electromagnetic Fields doubles as a textbook for both an entry-level graduate course on electromagnetics and an advanced-level graduate course on computational electromagnetics. It presents the fundamental concepts in a systematic manner so that students can advance from the first course to the second with little difficulty.

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### **Computational electromagnetics - Wikipedia**

(10471views)Electromagnetic Theory and Computation: A Topological Approach by Paul W. Gross, P. Robert Kotiuga-Cambridge University Press, 2004 This book explores the connection between algebraic structures in topology and computational methods for electric and magnetic field computation.

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Theory and Computation of Electromagnetic Fields / Jian-Ming Jin. p. cm. ISBN 978-0-470-53359-8 (cloth) 1. Electromagnetic fields--Mathematics--Textbooks. I. Title. QC665.E4J56 2010 530.14'1--dc22 2010008436 Printed in the United States of America 10 9 8 7 6 5 4 3 2 1 fffirs.indd ivfirs.indd iv 88/18/2010 3:36:21 PM/18/2010 3:36:21 PM

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