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this text which introduces electromagnetism to students of electrical electronic engineering applied physics emphasizes physical processes the development of models for these processes their use in the study of engineering problems mathematical techniques are introduced gradually methodically the first section of the text covers basic electrostatics magnetostatics develops the framework within which a vast area of applications are treated in part two this second section deals with situations where the couplings between electric magnetic fields cannot be ignored part three covers composite dielectrics stress control actuators classification of machine types description of circuit components throughout a major effort has been made to help students relate mathematical formalism to physical ideas practical systems several solid examples are given followed by problems answers

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world leaders in diverse disciplines whose common interest is finite element methods address the latest developments in the field mathematical theory engineering and scientific applications computational techniques large scale analysis and implementation of related methods are among the subjects discussed

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