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Physics for Scientists & Engineers 2000 key message this book aims to explain physics in a readable and interesting manner that is accessible and clear and to teach readers by anticipating their needs and difficulties without oversimplifying physics is a description of reality and thus each topic begins with concrete observations and experiences that readers can directly relate to we then move on to the generalizations and more formal treatment of the topic not only does this make the material more interesting and easier to understand but it is closer to the way physics is actually practiced key topics electric charge and electric field gauss's law electric potential capacitance dielectrics electric energy storage electric currents and resistance dc circuits magnetism sources of magnetic field electromagnetic induction and faraday's law inductance electromagnetic oscillations and ac circuits maxwell's equations and electromagnetic waves light reflection and refraction lenses and optical instruments the wave nature of light interference diffraction and polarization market description this book is written for readers interested in learning the basics of physics

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standard text for calculus based introductory physics courses it includes entirely new artwork updated examples and new pedagogical features

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