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Classical Field Theory and the Stress-Energy Tensor

By Mark S. Swanson

Morgan Claypool Publishers, United States, 2015. Paperback. Book Condition: New. 254 x 175 mm. Language: English . Brand New Book ***** Print on Demand *****.This book is a concise introduction to the key concepts of classical field theory for beginning graduate students and advanced undergraduate students who wish to study the unifying structures and physical insights provided by classical field theory without dealing with the additional complication of quantization. In that regard, there are many important aspects of field theory that can be understood without quantizing the fields. These include the action formulation, Galilean and relativistic invariance, traveling and standing waves, spin angular momentum, gauge invariance, subsidiary conditions, fluctuations, spinor and vector fields, conservation laws and symmetries, and the Higgs mechanism, all of which are often treated briefly in a course on quantum field theory. It is assumed the reader has a good working knowledge of undergraduate Newtonian mechanics and electricity and magnetism. This includes the Lagrangian formulation of mechanics as an action principle, the formulation of Maxwell's equations in terms of a vector and scalar potential, and a brush with special relativity and its relationship to these two areas. It assumes no background in continuum mechanics and fluid...



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