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a new edition of the best selling undergraduate textbook on classical electricity and magnetism

griffiths presents a clear accessible coverage of the fundamentals of electrodynamics enhanced with discussion points examples and exercises

perfect for the upper level undergraduate physics student introduction to electromagnetic theory presents a complete account of classical electromagnetism with a modern perspective its focused approach delivers numerous problems of varying degrees of difficulty for continued study the text gives special attention to concepts that are important for the development of modern physics and discusses applications to other areas of physics wherever possible a generous amount of detail has been in given in mathematical manipulations and vectors are employed right from the start

a self contained guide to the physics gre reviewing all of the topics covered alongside three practice exams with fully worked solutions

electromagnetism problems and solutions is an ideal companion book for the undergraduate student sophomore junior or senior who may want to work on more problems and receive immediate feedback while studying each chapter contains brief theoretical notes followed by the problem text with the solution and ends with a brief bibliography also presented are problems more general in nature which may be a bit more challenging

electrostatic dust mitigation and manipulation techniques for planetary dust explains how to control and remove dust in space due to the presence of a vacuum abrasiveness of dust particles and electrostatic charge on particles the book introduces innovative technologies that use electrostatic and di electrophoretic forces to remove and transport small particles away from surfaces in addition it discusses how to resolve thermal control problems and reduce lung inhalation and eye irritation problems the book includes two abrasive wear test devices that were designed to study the rate of volume wear for different materials when subjected to lunar dust simulant of different size ranges this will be an ideal resource for space system engineers space exploration researchers and advanced students and professionals in space engineering provides a comprehensive background on lunar and martian dust properties and challenges and compares currently available mitigation strategies highlights the problems from dust on various space systems and crew features discrete element models which were created and calibrated based on experimental results to study the capacity of the proposed technique for removing and cleaning dust in a planetary environment

synthetic aperture radar imaging mechanism for oil spills delivers the critical tool needed to understand the latest technology in radar imaging of oil spills particularly microwave radar as a main source to understand analysis and applications in the field of marine pollution filling the gap between modern physics quantum theory and applications of radar imaging of oil spills this reference is packed with technical details associated with the potentiality of synthetic aperture radar sar and the key methods used to extract the value added information necessary such as location size perimeter and chemical details of the oil slick from sar measurements rounding out with practical simulation trajectory movements of oil spills using radar images

this book brings an effective new source of technology and applications for today's oil and marine pollution engineers bridges the gap between theory and application of the techniques involving oil spill monitoring helps readers understand a new approach to four dimensional automatic detection provides advanced knowledge on image processing based on intelligent learning machine algorithms and new techniques for detection such as quantum and multi objective algorithms

synthetic aperture radar automatic detection algorithms sarada for oil spills conveys the pivotal tool required to fully comprehend the advanced algorithms in radar monitoring and detection of oil spills particularly quantum computing and algorithms as a keystone to comprehending theories and algorithms behind radar imaging and detection of marine pollution bridging the gap between modern quantum mechanics and computing detection algorithms of oil spills this book contains precise theories and techniques for automatic identification of oil spills from sar measurements based on modern quantum physics the book also includes the novel theory on radar imaging mechanism of oil spills with the use of precise quantum simulation of trajectory movements of oil spills using a sequence of radar images this book demonstrates the use of sarada for contamination by oil spills as a promising novel technique key features introduces basic concepts of a radar remote sensing fills a gap in the knowledge base of quantum theory and microwave remote sensing discusses the important aspects of oil spill imaging in radar data in relation to the quantum theory provides recent developments and progresses of automatic detection algorithms of oil spill from radar data presents 2 d oil spill radar data in 4 d images

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