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this book is aimed to provide the basic preparatory material to the students who wish to study the electromagnetism as part of their course study in the discussion of different concepts of electromagnetism use of vectors and coordinates systems are unavoidable most of the books avoid details of these topics due to scope of the book or the syllabus most of the students take it for granted the formulae stated in the book some students when try to understand the three dimensional aspects of the coordinate systems they find some confusion to help student clear their concepts on these aspects and to answer how different readily given expressions are derived we have come forward to write this book the book starts discussion from very basic definitions of vector terminology and then relates this with the coordinate systems most needed coordinate systems are cartesian cylindrical and spherical coordinate systems these systems are discussed from the basic level and culminate into the derivations of the longer expressions as problems are already available in the books of similar nature authors have not included them in this book it is hoped that this book would clear most of the concepts needed to study the electromagnetism

describing and evaluating the basic principles and methods of subsurface sensing and imaging introduction to subsurface imaging is a clear and comprehensive treatment that links theory to a wide range of real world applications in medicine biology security and geophysical environmental exploration it integrates the different sensing techniques acoustic electric electromagnetic optical x ray or particle beams by unifying the underlying physical and mathematical similarities and computational and algorithmic methods time domain spectral and multisensor methods are also covered whilst all the necessary mathematical statistical and linear systems tools are given in useful appendices to make the book self contained featuring a logical blend of theory and applications a wealth of color illustrations homework problems and numerous case studies this is suitable for use as both a course text and as a professional reference expanded and updated this practical guide is a one stop design reference containing all an engineer needs when designing antennas integrates state of the art technologies with a special section for step by step antenna design features up to date bio safety and electromagnetic compatibility regulation compliance and latest standards newly updated with mimo antenna design measurements and requirements accessible to readers of many levels from introductory to specialist written by a practicing expert who has hired and trained numerous engineers

a one stop tutorial for beginners covering the fundamentals of microwave imaging including application examples and practical exercises the 2022 world economic forum surveyed 1 000 experts and leaders who indicated their risk perception that the earth s conditions for humans are a main concern in the next 10 years this means environmental risks are a priority to study in a formal way at the same time innovation risks are present in the minds of leaders new knowledge brings new risk and the adaptation and adoption of risk knowledge is required to better understand the causes and effects can have on technological risks these opportunities require not only adopting new ways of managing and controlling emerging processes for society and business but also adapting organizations to changes and managing new risks risk analytics data driven decisions under uncertainty introduces a way to analyze and design a risk analytics system ras that integrates multiple approaches to risk analytics to deal with diverse types of data and problems a risk analytics system is a hybrid system where human and artificial intelligence interact with a data gathering and selection process that uses multiple sources to the delivery of guidelines to make decisions that include humans and machines the ras system is an integration of components such as data architecture with diverse data and a risk analytics process and modeling process to obtain

knowledge and then determine actions through the new knowledge that was obtained the use of data analytics is not only connected to risk modeling and its implementation but also to the development of the actionable knowledge that can be represented by text in documents to define and share explicit knowledge and guidelines in the organization for strategy implementation this book moves from a review of data to the concepts of a ras it reviews ras system components required to support the creation of competitive advantage in organizations through risk analytics written for executives analytics professionals risk management professionals strategy professionals and postgraduate students this book shows a way to implement the analytics process to develop a risk management practice that creates an adaptive competitive advantage under uncertainty

as an indo european language armenian has been the subject of etymological research for over a hundred years there are many valuable systematic handbooks studies and surveys on comparative armenian linguistics almost all of these works with a few exceptions mostly concentrate on classical armenian and touch the dialects only sporadically non literary data taken from armenian dialects have largely remained outside of the scope of indo european etymological considerations this book provides an up to date description of the indo european lexical stock of armenian with systematic inclusion of dialectal data it incorporates the lexical phonetic and morphological material in the armenian dialects into the etymological treatment of the indo european lexicon in this respect it is completely new

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2020-03-20

this book is aimed to provide the basic preparatory material to the students who wish to study the electromagnetism as part of their course study in the discussion of different concepts of electromagnetism use of vectors and coordinates systems are unavoidable most of the books avoid details of these topics due to scope of the book or the syllabus most of the students take it for granted the formulae stated in the book some students when try to understand the three dimensional aspects of the coordinate systems they find some confusion to help student clear their concepts on these aspects and to answer how different readily given expressions are derived we have come forward to write this book the book starts discussion from very basic definitions of vector terminology and then relates this with the coordinate systems most needed coordinate systems are cartesian cylindrical and spherical coordinate systems these systems are discussed from the basic level and culminate into the derivations of the longer expressions as problems are already available in the books of similar nature authors have not included them in this book it is hoped that this book would clear most of the concepts needed to study the electromagnetism

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Introduction to Subsurface Imaging

2011-03-17

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