

Basic Electrical Engineering By J B Gupta Pdf Book

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joseph h hamilton is a world leading nuclear physicist and the landon c garland distinguished professor of physics at vanderbilt university he retired in 2022 after 64 years on the faculty and a career of major contributions in research education formation of collaborations and construction of new facilities his influence on the field of nuclear physics has been enormous and his mentorship of new talent profound starting from early life in a depression era small town he built a long and highly successful career in science and even in the interface between science and religion with extensive writings and lectures some of hamilton s colleagues have summarized in this book his major scientific discoveries his development of new physics consortia and facilities teaching of undergraduates mentorship of graduate students and postdoctoral fellows and devotion to building collaborations across the us europe and asia he has published over a thousand scientific papers and is known for seminal contributions in a variety of important areas in nuclear science one major discovery has been the co existence of very different shapes in a single nucleus once thought impossible and which has led to significant new insights into the fascinating quantum world of the atomic nucleus another was the discovery of element 117 as he led the formation of the consortium to perform these difficult measurements and then suggested the name adopted for this new element tennessine this book includes his own summary on a remarkable career and the heartfelt comments of people that have so greatly benefited from his work and partnership all together these chapters will show future generations

what it means and what is needed to become a great scientist as well as an incredible human being

this book is designed based on revised syllabus of jntu hyderabad aicte model curriculum for under graduate b tech be students of all branches those who study basic electrical engineering as one of the subject in their curriculum the primary goal of this book is to establish a firm understanding of the basic laws of electric circuits network theorems resonance three phase circuits transformers electrical machines and electrical installation

this book is the second volume of solids volumes in the shockwave science and technology reference library these volumes are primarily concerned with high pressure shock waves in solid media including detonation and high velocity impact and penetration events this volume contains four articles the first two describe the reactive behavior of condensed phase explosives and the remaining two discuss the inert mechanical response of solid materials the articles are each self-contained and can be read independently of each other they offer a timely reference for beginners as well as professional scientists and engineers covering the foundations and the latest progress and include burgeoning development as well as challenging unsolved problems the first chapter by s. sheeld and r. engelke discusses the shock initiation and detonation phenomena of solids explosives the article is an outgrowth of two previous review articles explosives in vol 6 of encyclopedia of applied physics vch 1993 and initiation and propagation of detonation in condensed phase high explosives in high pressure shock compression of solids iii springer 1998 this article is not only an dated review but also offers a concise heuristic introduction to shock waves and condensed phase detonation the authors emphasize the point that detonation is not an uncontrollable chaotic event but that it is an orderly event that is governed by and is describable in terms of the conservation of mass momentum energy and certain material specific properties of the explosive

this book primarily focuses on methodologies to enable marine structures to resist high velocity impact loadings it is based on invited talks presented at the recent india usa workshop on recent advances in blast mitigation strategies in civil and marine composite structures the book comprises content from top researchers from india and the usa and covers various aspects of the topic including modeling and simulation design aspects experimentation and various challenges these failure modes significantly reduce the structural integrity of the marine structures unless they are designed to resist such harsh loadings understanding the mechanics of these structures under harsh loadings is still an open area of research and the behavior of these structures is not fully understood the book highlights efforts to reduce the effects of blast loadings on marine composite structures intended for researchers scientists and practicing engineers the book focuses not only the design and analysis challenges of marine composite structures under such harsh loading conditions but also provides new design guidelines

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