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this standard handbook for engineers covers the fundamentals theory and applications of radio electronics computers and communications equipment it provides

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this handbook brings together diverse domains and technical competences of model based systems engineering mbse into a single comprehensive publication it is intended for researchers practitioners and students educators who require a wide ranging and authoritative reference on mbse with a multidisciplinary global perspective it is also meant for those who want to develop a sound understanding of the practice of systems engineering and mbse and or who wish to teach both

introductory and advanced graduate courses in systems engineering it is specifically focused on individuals who want to understand what mbse is the deficiencies in current practice that mbse overcomes where and how it has been successfully applied its benefits and payoffs and how it is being deployed in different industries and across multiple applications mbse engineering practitioners and educators with expertise in different domains have contributed chapters that address various uses of mbse and related technologies such as simulation and digital twin in the systems lifecycle the introductory chapter reviews the current state of practice discusses the genesis of mbse and makes the business case subsequent chapters present the role of ontologies and meta models in capturing system interdependencies reasoning about system behavior with design and operational constraints the use of formal modeling in system model verification and validation ontology enabled integration of systems and system of systems digital twin enabled model based testing system model design synthesis model based tradespace exploration design for reuse human system integration and role of simulation and internet of things iot within mbse

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in this basic introduction the author aims to help engineers and scientists to understand and use excel in their fields the book is interactive and designed to be used in conjunction with a computer to provide a hands on learning experience

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