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Sommario/riassunto

A comprehensive and interdisciplinary guide to systems engineering. Systems Engineering: Principles and Practice, 3rd edition is the leading interdisciplinary reference for systems engineers. The up-to-date third edition provides readers with discussions of model-based systems engineering, requirements analysis, engineering design, and software design. Freshly updated governmental and commercial standards, architectures, and processes are covered in-depth. The book includes newly updated topics on: Risk; Prototyping; Modeling and simulation; Software/computer systems engineering. Examples and exercises appear throughout the text, allowing the reader to gauge their level of retention and learning. Systems Engineering: Principles and Practice was and remains the standard textbook used worldwide for the study of traditional systems engineering. The material is organized in a manner that allows for quick absorption of industry best practices and methods. Systems Engineering Principles and Practice continues to be a national standard textbook for the study of traditional systems engineering for advanced undergraduate and graduate students. It addresses the need for an introductory overview, first-text for the development and acquisition of complex technical systems. The material is organized in a way that teaches the reader how to think like a systems engineer and carry out best practices in the field.