1. Record Nr. UNINA9910720571203321 Autore Langford Gary O. Titolo Engineering systems integration: theory, metrics, and methods // Gary O. Langford Boca Raton:,: Taylor and Francis,, 2012 Pubbl/distr/stampa Descrizione fisica 1 online resource (xix, 386 pages) 658.5 Disciplina Soggetti Product life cycle Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Overview. Explicate discussion of systems engineering. Foundations of systems integration. Introduction to a theory of systems integration. Frameworks for systems integration. Value, worth, and risk in systems integration. Hierarchal versus heterarchial system decomposition. Coupling, cohesion, and connectivity between elements. Introduction to abstraction and granularity. Emergent behaviors. Systems integration management. Scenario planning for systems integration. System of systems integration. Future research in systems integration. Sommario/riassunto The first book to address the underlying premises of systems integration and how to exposit them into a practical and productive manner, this book prepares systems managers and systems engineers to consider their decisions in light of systems integration metrics. The book addresses two questions: Is there a way to express the interplay of human actions and the result of system interactions of a product with its environment, and are there methods that combine to improve the integration of systems? The systems integration theory and

Theory with practice.

integration frameworks proposed in the book tie General Systems