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| ISBN | 3-319-22398-4 |
| Edizione | [1st ed. 2016.] |
| Descrizione fisica | 1 online resource (316 p.) |
| Disciplina | 620 |
| Soggetti | Engineering economy Operations research Decision making Production management Engineering Economics, Organization, Logistics, Marketing Operations Research/Decision Theory Operations Management |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | 1. Introduction: Systems Engineering – Why? -- 2. Multidisciplinary Systems Engineering -- 3. Multidisciplinary Systems Engineering Roles -- 4. Systems Engineering Tools and Practices -- 5. The Overall Systems Engineering Design -- 6. Systems of Systems Architecture Design -- 7. Systems Engineering Tasks and Products -- 8. Multidisciplinary Systems Engineering Processes -- 9. Plan Development Timelines -- 10. Putting it all Together – System of Systems Multidisciplinary Engineering -- 11. Conclusions and Discussion. |
| Sommario/riassunto | This book presents Systems Engineering from a modern, multidisciplinary engineering approach, providing the understanding that all aspects of systems design, systems, software, test, security, maintenance and the full life-cycle must be factored in to any large-scale system design; up front, not factored in later. It lays out a step-by-step approach to systems-of-systems architectural design, describing in detail the documentation flow throughout the systems |

engineering design process. It provides a straightforward look and the entire systems engineering process, providing realistic case studies, examples, and design problems that will enable students to gain a firm grasp on the fundamentals of modern systems engineering. Included is a comprehensive design problem that weaves throughout the entire text book, concluding with a complete top-level systems architecture for a real-world design problem.
