



Azad M. Madni

Transdisciplinary Systems Engineering

Exploiting Convergence in a Hyper-Connected World

- Introduces a bold, new vision of where model-based systems architecting and engineering is headed
- Maximizes reader understanding of recent advances in social networks, collaboration technologies, interactive storytelling, virtual worlds, and systems design that enable transdisciplinary systems engineering
- Illustrates convergence among disciplines across social, human, and applied sciences with robust examples
- Facilitates creation of new courses in systems architecting and engineering by structuring each chapter as an independent resource, allowing the content to be presented in order of academic need

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This book explores the ways that disciplinary convergence and technological advance are transforming systems engineering to address gaps in complex systems engineering: Transdisciplinary Systems Engineering (TSE). TSE reaches beyond traditional disciplines to find connections—and this book examines a range of new methods from across such disparate areas of scholarship as computer science, social science, human studies, and systems design to reveal patterns, efficiencies, affordances, and pathways to intuitive design. Organized to serve multiple constituencies, the book stands as an ideal textbook supplement for graduate courses in systems engineering, a reference text for program managers and practicing engineers in all industries, and a primary source for researchers engaged in multidisciplinary research in systems engineering and design.

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