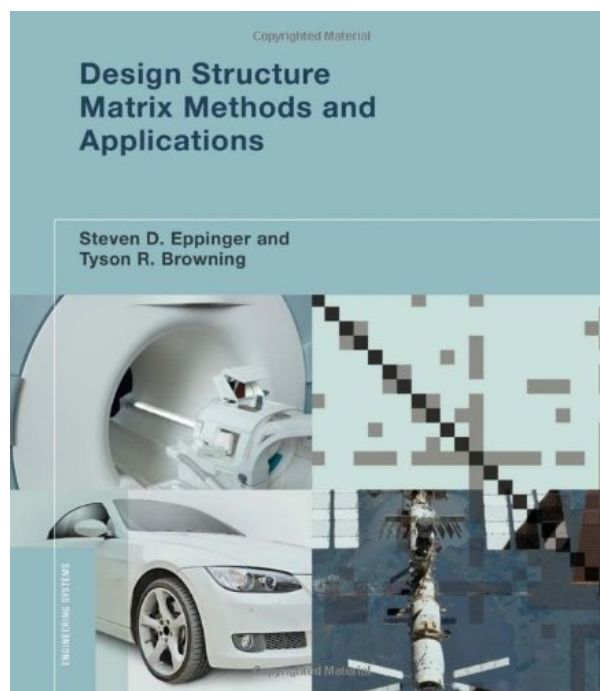
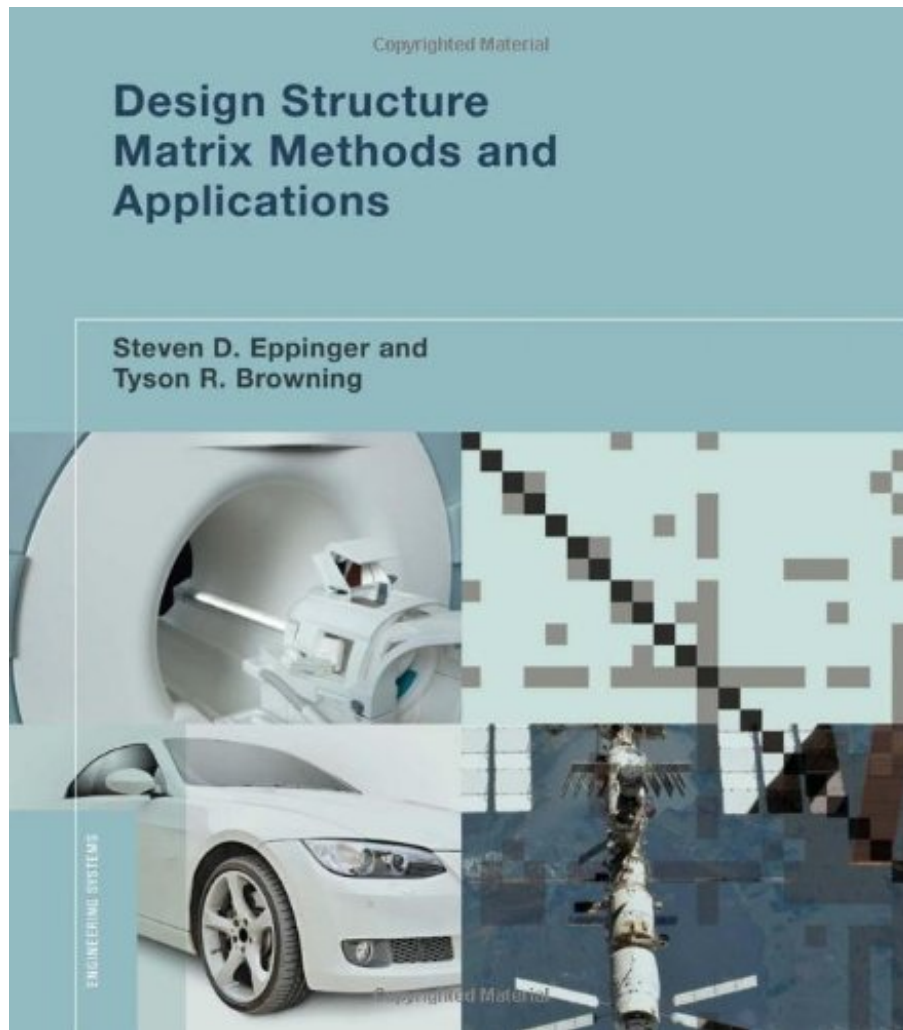


DESIGN STRUCTURE MATRIX METHODS AND APPLICATIONS (ENGINEERING SYSTEMS) BY STEVEN D. EPPINGER, TYSON R. BROWNING



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Review

Steven Eppinger and Tyson Browning have synthesized more than two decades of research into an amazing resource for designers and managers of complex systems. The book lays a foundation with a clear and concise tutorial of the Design Structure Matrix method. The authors then bring the tool to life with applications as diverse as software, aircraft engines, and facilities design.

(Karl Ulrich, Vice Dean of Innovation, CIBC Professor of Entrepreneurship and e-Commerce, The Wharton School, University of Pennsylvania)

At last, there is one book on the design structure matrix method and its applications that addresses the entire spectrum of product architecture, organization design, and process optimization. The rich, real world examples are based on years of research and are excellent resources for mastering the DSM method. Every engineering leader will benefit from the concepts in this book.

(Xinqun Qui, John Deere Power Systems)

As an industrial practitioner of DSM methods since 1995, I have seen how powerful these models can be for visualization and management of complex engineering challenges. Steven Eppinger and Tyson Browning have compiled more than twenty years of DSM experience to create the definitive body of DSM knowledge. I strongly recommend this book.

(H. Mike Stowe, Senior Process Engineer, The Boeing Company; Leader, DSM Industry Special Interest Group (SIG))

About the Author

Steven D. Eppinger is Professor of Management Science and Innovation at MIT Sloan School. He holds the General Motors Leader for Global Operations Chair and has a joint appointment in MIT's Engineering Systems Division. He is Codirector of MIT's System Design and Management Program. Tyson R. Browning is Associate Professor of Operations Management at the Neeley School of Business at Texas Christian University. His background in systems engineering and project management includes a Ph.D. from MIT.

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Design structure matrix (DSM) is a straightforward and flexible modeling technique that can be used for designing, developing, and managing complex systems. DSM offers network modeling tools that represent the elements of a system and their interactions, thereby highlighting the system's architecture (or designed structure). Its advantages include compact format, visual nature, intuitive representation, powerful analytical capacity, and flexibility. Used primarily so far in the area of engineering management, DSM is increasingly being applied to complex issues in health care management, financial systems, public policy, natural sciences, and social systems. This book offers a clear and concise explanation of DSM methods for practitioners and researchers.

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- 352 pages

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Most helpful customer reviews

3 of 4 people found the following review helpful.

Finally A Central Reference for the DSM Work!

By Sunny Days

This is a beautifully compiled book collecting research on the Design Structure Matrix method over the past 20 years. The book has very clear organization. Within each topic, a variety of examples are collected, and concisely presented. Full references are provided for those interested in going deeper. The high quality color prints makes a strong visual impact and is just a pleasure to see, speaking as someone who is a part of this research community! Finally, there is a place I can point to for those who ask to read more about the method. Thank you!

0 of 0 people found the following review helpful.

Five Stars

By Luis San Martin Riveros

Very good book, easy to understand and usefull

0 of 1 people found the following review helpful.

Lots of examples to save you thinking

By Joseph Kasser

The book describes a variety of application examples of the use of DSM in different process and product domains and in dealing with different problems in various industries. The book uses colour to make the connections clear. Typical examples include:

- Using DSM to represent and analyse the architecture of complex systems.
- Applying DSM to represent and analyse organizations that develop engineered systems and the types of insights gained through these DSM applications.
- Applying DSM to represent and analyse product development processes for engineered systems and the types of insights gained through these DSM applications.
- Using DSM in matrix models that represent two or more domains at once.

The large number different colourful charts in the book illustrate the different types of information that can be shown in the connection between the system elements.

Is this book useful? Well, it depends. It does deserve a place in an organizations' library to provide junior systems engineers with ideas about how DSM and N2 charts can be used in various situations. However, it

does not appear to be a book that would be referenced very often and so does not need to be on your bookshelf.

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