



# Axiomatic Design and Design Structure Matrix for Circular Building Design

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**Abstract.** The study aims to propose the integration of Axiomatic Design (AD) and Design Structure Matrix (DSM) methods to support the implementation of building reversibility within circular building design (CBD). In CBD, strategies for building reversibility have been formulated, but available tools mainly support design evaluation in the late stages. On the other side, in engineering design, methods to support reversibility in early design stages are available. AD and DSM are two matrix-based product modelling methods that are used in the analysis and modelling of relations in complex systems from the concept design. AD guides the designers in modelling the relationships between functional elements and physical components in a structured manner from the early design stages. DSM provides a method for modelling physical relationships among the physical components and groups them into modules. Despite the potential benefits of using these matrix-based design methods, previous studies on building reversibility within CBD have not yet explored this proposition. The study intends to place the theoretical premises for the application of AD combined with DSM within CBD for building reversibility. The study applies theory-oriented research by exploring, collecting, and evaluating relevant information from different theoretical and practical sources to formulate propositions on building reversibility within CBD. Propositions will be tested in future real-world applications while detecting challenges and limitations to assess effectiveness in supporting building reversibility within CBD.

**Keywords:** circular building · building reversibility · matrix-based product modelling methods · Axiomatic Design · Design Structure Matrix

## 1 Introduction

Circular building design (CBD) has recently achieved interest and recognition because of its potential for sustainable development in the built environment through the application of the circular economy approach to building systems, components and materials. Within CBD, building reversibility concepts and design strategies have been formulated to support the implementation of circular building solutions. However, this theoretical content is not yet fully embedded within design frameworks and tools to support the design process. The lack of design tools for the development of circular buildings through design strongly limits the application of circular strategies in the building sector [1].

# Axiomatic Design And Design Structure Matrix Measures For

**Christopher Schlick, Bruno Demissie**



## **Axiomatic Design And Design Structure Matrix Measures For:**

Design Structure Matrix Methods and Applications Steven D. Eppinger, Tyson R. Browning, 2012 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 **A**

## **Hetero-functional Graph Theory for Modeling Interdependent Smart City Infrastructure** Wester C. H.

Schoonenberg, Inas S. Khayal, Amro M. Farid, 2018-11-30 Cities have always played a prominent role in the prosperity of civilization Indeed every great civilization we can think of is associated with the prominence of one or more thriving cities And so understanding cities their inhabitants their institutions their infrastructure what they are and how they work independently and together is of fundamental importance to our collective growth as a human civilization Furthermore the 21st century smart city as a result global climate change and large scale urbanization will emerge as a societal grand challenge This book focuses on the role of interdependent infrastructure systems in such smart cities especially as it relates to timely and poignant questions about resilience and sustainability In particular the goal of this book is to present in one volume a consistent Hetero Functional Graph Theoretic HFGT treatment of interdependent smart city infrastructures as an overarching application domain of engineering systems This work may be contrasted to the growing literature on multi layer networks which despite significant theoretical advances in recent years has modeling limitations that prevent their real world application to interdependent smart city infrastructures of arbitrary topology In contrast this book demonstrates that HFGT can be applied extensively to an arbitrary number of arbitrarily connected topologies of interdependent smart city infrastructures It also integrates for the first time all six matrices of HFGT in a single system adjacency matrix The book makes every effort to be accessible to a broad audience of infrastructure system practitioners and researchers e.g. electric power system planners transportation engineers and hydrologists etc Consequently the book has extensively visualized the graph theoretic concepts for greater intuition and clarity Nevertheless the book does require a common methodological base of its readers and directs itself to the Model Based Systems Engineering MBSE community and the Network Science Community NSC To the MBSE community we hope that HFGT will be accepted as a quantification of many of the structural concepts found in model based systems engineering languages like SysML To the NSC we hope to present a new view as how to construct graphs with fundamentally different meaning and insight Finally it is our hope that HFGT serves to overcome many of the theoretical and modeling limitations that have hindered our ability to systematically understand the structure

and function of smart cities      **Proceedings of the 6th International Conference on Axiomatic Design** ,      *The On-line Electric Vehicle* Nam P. Suh, Dong Ho Cho, 2017-04-04 This book details the design and technology of the on line electric vehicle OLEV system and its enabling wireless power transfer technology the shaped magnetic field in resonance SMFIR The text shows how OLEV systems can achieve their three linked important goals reduction of CO2 produced by ground transportation improved energy efficiency of ground transportation and contribution to the amelioration or prevention of climate change and global warming SMFIR provides power to the OLEV by wireless transmission from underground cables using an alternating magnetic field and the reader learns how this is done This cable network will in future be part of any local smart grid for energy supply and use thereby exploiting local and renewable energy generation to further its aims In addition to the technical details involved with design and realization of a fleet of vehicles combined with extensive subsurface charging infrastructure practical issues such as those involved with pedestrian safety are considered Furthermore the benefits of reductions in harmful emissions without recourse to large banks of batteries are made apparent Importantly the use of Professor Suh s axiomatic design paradigm enables such a complicated transportation system to be developed at reasonable cost and delivered on time The book covers both the detailed design and the relevant systems engineering knowledge and draws on experience gained in the successful implementation of OLEV systems in four Korean cities The introduction to axiomatic design and the in depth discussion of system and technology development provided by *The On line Electric Vehicle* is instructive to graduate students in electrical mechanical and transportation engineering and will help engineers and designers to master the efficient timely and to cost implementation of large scale networked systems Managers responsible for the running of large transportation infrastructure projects and concerned with technology management more generally will also find much to interest them in this book      *Product Development Projects* Christopher Schlick, Bruno Demissie, 2015-10-12 This book presents an analysis of the dynamics and the complexity of new product development projects which are organized according to the concept of concurrent engineering The approach of the authors includes both a theoretical and an empirical treatment of the topic based on the theory of design structure matrices Readers will discover diverse perspectives and mathematical models as well as an extensive discussion of two case studies      *Design for Six Sigma, Chapter 8 - Axiomatic Design* Kai Yang, Basem EI-Haik, 2008-08-15 Here is a chapter from an updated *Design for Six Sigma* Second Edition which has extensive new chapters and learning modules on innovation lean product development computer simulation and critical parameter management plus new thread through case studies This updated edition provides unrivalled real world product development experience and priceless walk throughs that help you choose the right design tools at every stage of product and service development The book includes detailed directions careful comparisons and work out calculations that make every step of the *Design for Six Sigma* process easier      *Journal of Mechanical Design* , 2007-07      **Proceedings of the ... ASME Design Engineering Technical Conferences** , 2006

**DETC2005** ,2005      *Axiomatic Quality* Basem El-Haik,2005-04-15 This book develops design concepts processes and methodologies that eliminate or reduce both conceptual and operational types of weaknesses and help design teams in producing systems that operate at high quality levels for each of their design requirements      *Simulation-based Lean Six-Sigma and Design for Six-Sigma* Basem El-Haik,Raid Al-Aomar,2006-09-29 This book includes DFSS Design for Six Sigma design of Experiment Quality Function Deployment QFD Process Mapping Discrete Event Simulation DES Value Stream Mapping VSM Lean Techniques including JIT SMED TPM and others      **Mechatronic Systems 2004** S. O. Reza Moheimani,2005      *Dissertation Abstracts International* ,2007      *Annual Index/abstracts of SAE Technical Papers* ,2007

Design for Six Sigma Kai Yang,Basem EI-Haik,2003-06-11 Here s the book that clearly and logically answers the complex question quality managers and product developers face almost every day WHICH PRODUCT DEVELOPMENT TOOLS SHOULD I USE AND WHEN This much needed well written roadmap for robust efficient product development features All the coverage needed to implement six sigma in any manufacturing concern A complete review of both traditional and contemporary design methods Systems discussed include DOE Design Of Experiment Taguchi Method QFD Quality Function Deployment Axiomatic Design and TRIZ Theory for Inventive Problem Solving Practical examples to highlight important elements of each system A unique multi systems approach to designing products incorporating the traditional and contemporary methods discussed detailing how and when to use them Valuable assistance when preparing for certification exams      *Journal of Dynamic Systems, Measurement, and Control* ,2001 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality      *Reliability and Robust Design in Automotive Engineering 2006* ,2006 Collection of papers from the Reliability Robust Design in Automotive Engineering session of the SAE 2006 World Congress held April 3 6 in Detroit Michigan      Proceedings of the ASME Design Engineering Division ... ,2004

**Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conferences--2005** ,2005      **Concurrent Product Design** Rajit Gadh,1994

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