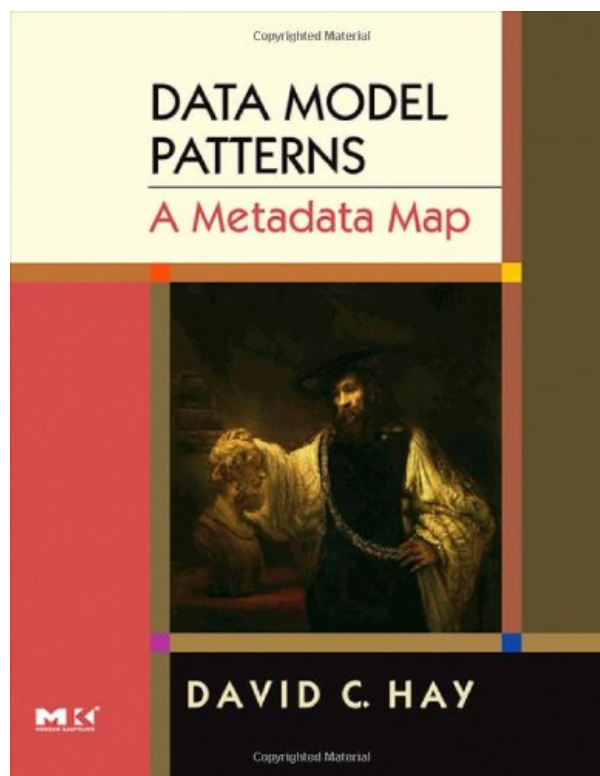
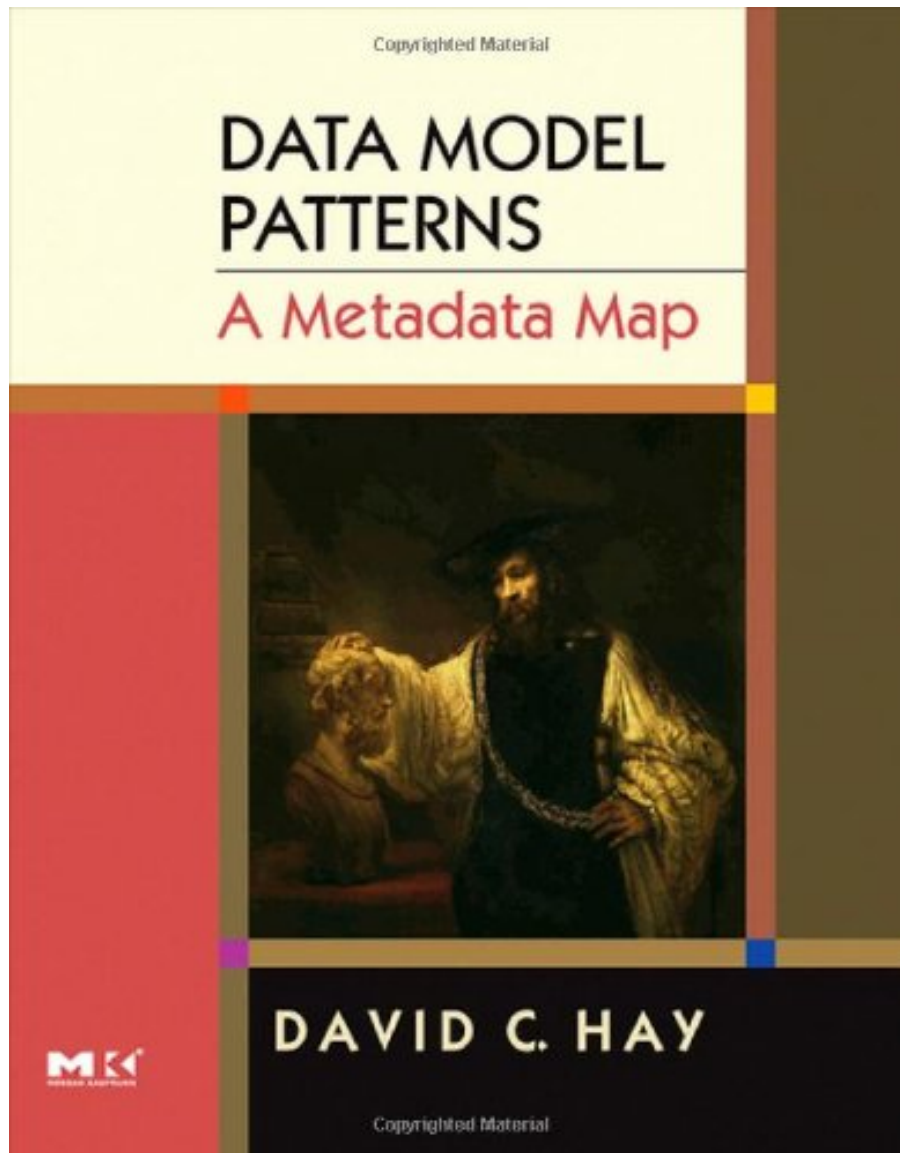


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In recent years, companies and government agencies have come to realize that the data they use represent a significant corporate resource, whose cost calls for management every bit as rigorous as the management of human resources, money, and capital equipment. With this realization has come recognition of the importance to integrate the data that has traditionally only been available from disparate sources.

An important component of this integration is the management of the “metadata” that describe, catalogue, and provide access to the various forms of underlying business data. The “metadata repository” is essential keeping track both of the various physical components of these systems, but also their semantics. What do we mean by “customer?” Where can we find information about our customers?

After years of building enterprise models for the oil, pharmaceutical, banking, and other industries, Dave Hay has here not only developed a conceptual model of such a metadata repository, he has in fact created a true enterprise data model of the information technology industry itself.

\* A comprehensive work based on the Zachman Framework for information architecture?encompassing the Business Owner's, Architect's, and Designer's views, for all columns (data, activities, locations, people, timing, and motivation)

\* Provides a step-by-step description of model and is organized so that different readers can benefit from different parts

\* Provides a view of the world being addressed by all the techniques, methods and tools of the information processing industry (for example, object-oriented design, CASE, business process re-engineering, etc.)

\* Presents many concepts that are not currently being addressed by such tools ? and should be

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- Binding: Hardcover
- 432 pages

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1 of 4 people found the following review helpful.

Excellent, detailed explanation of metadata

By Howard Kay

Hay provides an excellent conceptual explanation of metadata principles and design. It would benefit from a case study and examples throughout.

10 of 10 people found the following review helpful.

Great Stuff

By R. Gantt

This book is great stuff for Enterprise Architects. The discussion of Zachman is better than any of the Zachman Institutes articles. The explanation of the value of architectural meta-models is excellent.

On the down side, the meta-models presented are very good EXCEPT that the author still presents data as being a part of an application. Surely 20 or so years after James Martin we are past that. Applications with their own data schemata are to be avoided and suppressed, rather than endorsed.

If you are a "real" Enterprise Architect, then this is book indispensable, but review all of the meta-models carefully to insure that they comply with your particular religion.

16 of 20 people found the following review helpful.

Data Model Patterns - A Metadata Map by David C. Hay

By Margaret A. Tompkins

David Hay has produced another great book for the Data Architect, Data Administrator, and others who seek to understand data models, patterns in models, and metadata. It's more abstract than the previous Data Model Patterns, Conventions of Thought, and the focus is on information about information or metadata. The book is based on an Architecture Framework that is derived from John Zachman's "Framework for Enterprise Architecture". Examples are well developed and understandable. Much of the book expands on work and discussions through the Business Rules Group so you know the content is rock solid.

I especially liked the Entity Relationship Diagram (ERD) for the EntityType, Attribute, and RelationshipEnd. This simple but comprehensive model allows for super and sub types and recursion. The Class Model (UML) with its components parallels the similarities for the object oriented perspective. One of the fundamental strengths of this book is the ability to view metadata from different perspectives. "Gemba" is a wonderful word from the worlds of Total Quality Management, Lean Thinking, and Six Sigma. It means "real place". This book is "gemba" for metadata. The different views or perspectives of metadata are excellent and perhaps that's why it fits the Architecture Framework so nicely.

Within each chapter, David Hay discusses a column of the Architecture Framework. The chapter on people and organizations is awesome! He covers the business owner's view, the architect's view, designer's view and security and governance. Significant numbers of easy to follow color-coded diagrams accompany each section in all the chapters that clarify and elaborate on the text discussion. At each level, the topic is put into the Zachman framework for added clarity.

The chapter on the motivation column is also exceptional. I've never seen ERDs for mission, vision, objective, goal, desired result, means, tactic, strategy, directive, fact, business rule, business policy, enforcement, and consequence. How outstanding! That chapter alone is worth the price of the book and it really got me to thinking in much larger metadata type terms. Those organizations faced with governmental and business policies such as Sarbanes-Oxley will have much to think about with this data model!

Back in 2002, it was my distinct pleasure to read for the first time David Hay's book, Requirements Analysis: From Business Views to Architecture. That book is excellent and is packed full of features that really impressed me. He's included those same terrific features in this book as well. So as I wrote then, I'll repeat now: "The index is excellent! It's quite extensive, complete, and well organized. The bibliography is also exceptional and very complete. The glossary of terms is first rate! I especially liked the notations of chapters where the terms were documented. All of these excellent features point to the superb organization of the

book. It's a classic read and a must-have reference!"

Maggie Tompkins is a lead designer/developer for corporate database projects. She's a member of the Oracle Development Tools User Group (ODTUG) Board of Directors and is Editor Emeritus of the ODTUG Technical Journal. She is a previous vice president and secretary of ODTUG. She won the Best Speaker award for the ODTUG 2000 conference. Maggie has thirteen years of experience with Oracle tools and expertise includes Oracle SCM, Designer, database design, and methodology. She's a teacher, mentor, frequent presenter, and active participant on the ODTUG list serves. Margaret.Tompkins@comcast.net.

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