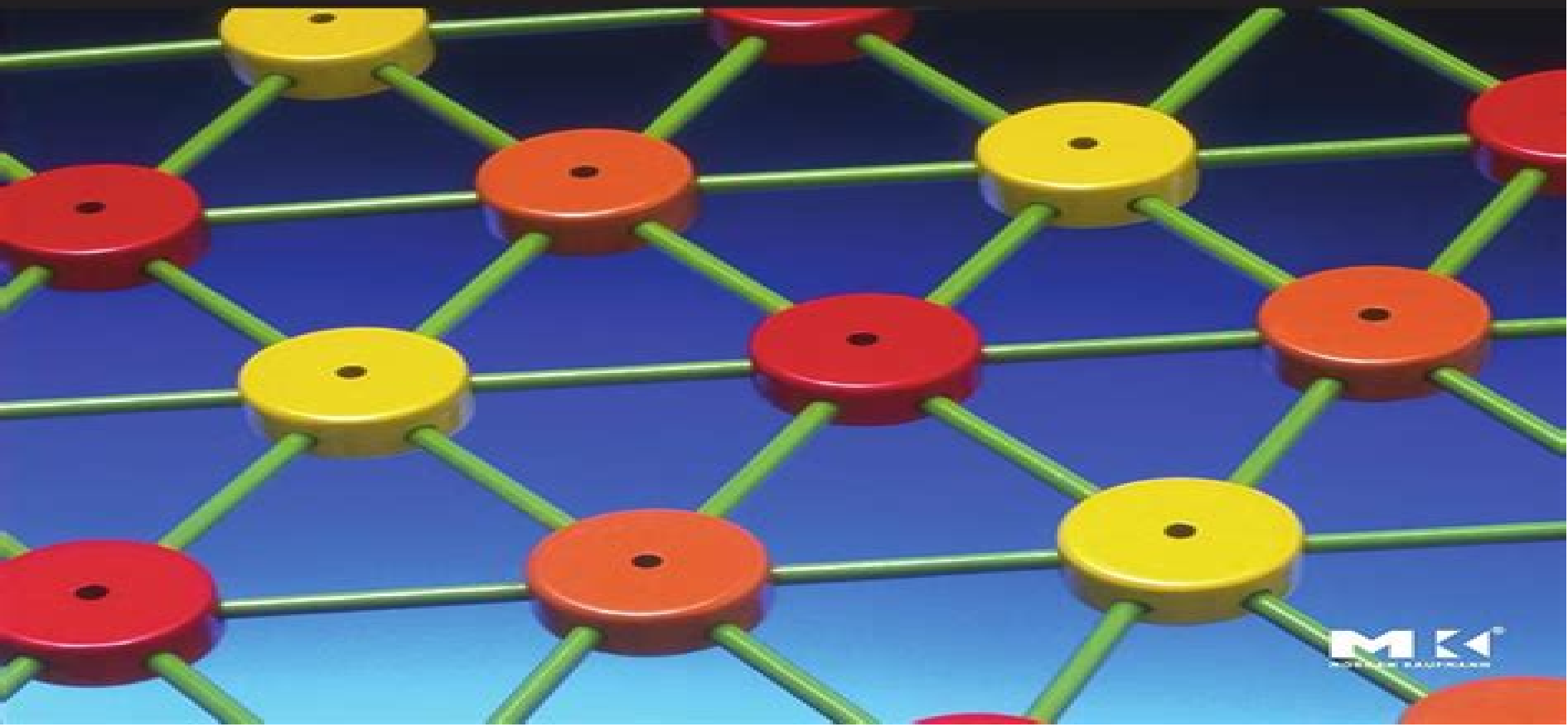




DATA MODELING ESSENTIALS

Third
Edition

Graeme C. **SIMSION** • Graham C. **WITT**



Data Modeling Essentials Third Edition

Jiawei Han, Micheline Kamber, Jian Pei



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Data Modeling Essentials Graeme Simsion, Graham Witt, 2004-12-03 Data Modeling Essentials Third Edition covers the basics of data modeling while focusing on developing a facility in techniques rather than a simple familiarization with the rules In order to enable students to apply the basics of data modeling to real models the book addresses the realities of developing systems in real world situations by assessing the merits of a variety of possible solutions as well as using language and diagramming methods that represent industry practice This revised edition has been given significantly expanded coverage and reorganized for greater reader comprehension even as it retains its distinctive hallmarks of readability and usefulness Beginning with the basics the book provides a thorough grounding in theory before guiding the reader through the various stages of applied data modeling and database design Later chapters address advanced subjects including business rules data warehousing enterprise wide modeling and data management It includes an entirely new section discussing the development of logical and physical modeling along with new material describing a powerful technique for model verification It also provides an excellent resource for additional lectures and exercises This text is the ideal reference for data modelers data architects database designers DBAs and systems analysts as well as undergraduate and graduate level students looking for a real world perspective Thorough coverage of the fundamentals and relevant theory Recognition and support for the creative side of the process Expanded coverage of applied data modeling includes new chapters on logical and physical database design New material describing a powerful technique for model verification Unique coverage of the practical and human aspects of modeling such as working with business specialists managing change and resolving conflict

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Moving Objects Databases Ralf Hartmut Güting, Markus Schneider, 2005-09-06 Moving Objects Databases is the first uniform treatment of moving objects databases the technology that supports GPS and RFID It focuses on the modeling and design of data from moving objects such as people animals vehicles hurricanes forest fires oil spills armies or other objects as well as the storage retrieval and querying of that very voluminous data It includes homework assignments at the end of each chapter exercises throughout the text that students can complete as they read and a solutions manual in the back of the book This book is intended for graduate or advanced undergraduate students It is also recommended for computer scientists and database systems engineers and programmers in government industry and academia professionals from other disciplines e g geography geology soil science hydrology urban and regional planning mobile computing bioterrorism and homeland security etc Focuses on the modeling and design of data from moving objects such as people animals vehicles hurricanes forest fires oil spills armies or other objects as well as the storage retrieval and querying of that very voluminous data Demonstrates through many practical examples and illustrations how new concepts and techniques are used to integrate time and space in database applications Provides exercises and solutions in each chapter to enable the reader to explore recent research results in practice

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