



Object-Process Methodology

By Dori, Dov / Crawley, E. F.

Book Condition: New. Publisher/Verlag: Springer, Berlin | A Holistic Systems Paradigm | Object-Process Methodology (OPM) is an intuitive approach to systems engineering. This book presents the theory and practice of OPM with examples from various industry segments and engineering disciplines, as well as daily life. OPM is a generic, domain independent approach that is applicable almost anywhere in systems engineering. | I Foundations of Object-Process Methodology.- 1 A Taste of OPM.- 1.1 The Wedding Example: A Sneak Preview of OPM.- 1.2 OPM Building Blocks: Objects, Processes, and States.- 1.3 Specialization and Inheritance.- 1.4 Aggregation and the Result Link.- Summary.- Problems.- 2 Object-Process Diagrams.- 2.1 Objects and Aggregation.- 2.2 Structural Relations and Structural Links.- 2.3 Processes and Procedural Links.- 2.4 System Diagram: The Top-Level OPD.- 2.5 Zooming into the Transaction Executing Process.- 2.6 The OPD Set.- 2.7 How to Read an OPD.- 2.7.1 Flow of Control.- 2.7.2 The Timeline in OPDs.- 2.7.3 Object States and Conditions.- 2.8 Completing the In-Zoomed Transaction Executing OPD.- 2.8.1 Logical XOR, AND, and OR Operators.- 2.8.2 The System Map.- 2.8.3 The Ultimate OPD.- 2.8.4 Zooming Out of Transaction Executing.- Summary.- Problems.- 3 Object-Process Language.- 3.1 Motivation for a Language.- 3.1.1 Real-Time Textual Feedback.- 3.1.2 Closing the...



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