The concept of method engineering came into life because of the general problems of adopting information systems development methodology into project situations. For many years academics and researchers have been challenged with the lack of a tailorable automated support at the level of information systems designing.

Today information systems development is mostly about making improvements to available systems to include new functionality according to changing business requirements. Therefore, the information systems development process must be able to be adjusted to such changing organizational demands. For years academic and commercial initiatives have been undertaken to try and automate the information systems development process for including mechanisms for engineering systems development approaches. Considerable progress has been made by isolating particular issues and providing solutions with certain trade-offs of limited flexible modeling support, but to date the available solutions have failed to address the requirement for full flexibility when supporting an arbitrary modeling technique. Therefore, the main contribution of this book is about how to integrate the concept of Computer Aided Method Engineering into Computer Aided Systems Engineering environments that facilitate the design and construction of arbitrary modeling techniques to support information systems development.

Method engineering is a very young field. Generally, method engineering can be considered from engineering of an entire methodology for information systems development to engineering of modeling techniques according to project requirements. Computer Aided Method Engineering (CAME) is about generation and use of information systems design techniques according to user needs. Sometimes such environments are called generic tools or MetaCASE. CASE research in the last decade has addressed issues such as method integration, multiple user support, multiple representation paradigms, method modifiability and evolution, and information retrieval and computational facilities. In light of these developments, today there is a need for a comprehensive methodology for realization of a CASE repository that fulfils the requirements of a fully flexible CAME architecture. Therefore, this book presents a contribution on a methodology and architecture of a CASE repository, forwarding a theory that will bring about component-based development into CASE tool design and development covering a repository construction principal for the 21st century.

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