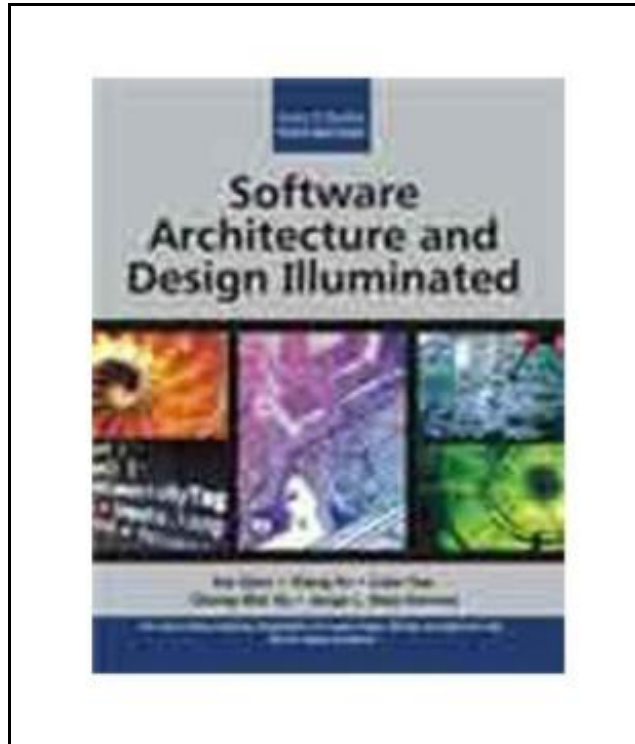# Software Architecture and Design Illuminated

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(Prof. Antone Olson II)

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Jones & Bartlett India Private Limited/Viva Books, 2010. Softcover. Book Condition: New. First edition. The SE 2004 of the ACM/IEEE computing curriculum project recommends software design and architecture as one of its ten essential areas of study. Software Architecture and Design Illuminated is the ideal text for undergraduate and graduate students delving into this critical area of the software development process. This text offers a coherent and integrated approach to the discipline of software architectural design and covers a complete set of important methodologies, architectural styles, design guidelines, and design tools. JavaTM is used throughout the book to explain design principles and present case studies. Review questions, exercises, and design assignments round out most chapters and allow students to test themselves on key material Key Features Include: Provides complete example with pseudocode, comprehensive design guidelines, and detailed diagrams to assist in the learning process. Incorporates the architecture and implementation of web-centered systems. Follows a complete case study, from architecture to implementation, throughout the text. Includes a final chapter titled ?Product Line Architectures? written by Jorge L. Diaz-Herrera, Dean of the B. Thomas Golisano College of Computing and Information Science at Rochester Institute of Technology End-of-chapter study aids and exercises allow students to test themselves on key material and reinforce important concepts. Contents: Chapter 1: Introduction to Software Architecture ? Overview ? Software Architecture: Bridging Requirements and Implementation ? Architecture Styles ? Quality Attributes ? Software Architecture Design Guidelines ? Summary ? Self- Review Questions ? Chapter 2: Software Architecture Design Space ? Overview ? Types of Software Structures: Software Static Structure ? Software Runtime Structure ? Software Management Structure ? Software Elements ? Software Connectors ? An Agile Approach to Software Architecture Design ? Summary ? Self-Review Questions ? Exercises ? Design Exercises ? Chapter 3: Models for Software Architecture...

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