Software as Capital: An Economic Perspective on Software Engineering

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Wiley-IEEE Computer Society Pr, 1997. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface. Acknowledgements. CHAPTER 1: Knowledge Capital and Economic Growth. BETTER TOOLS INCREASE THE WEALTH OF NATIONS. CORE CONCEPT: THE EVOLVING CAPITAL STRUCTURE. CAPITAL GOODS AS KNOWLEDGE. CAPITAL GOODS AND DIVISION OF KNOWLEDGE ACROSS TIME AND SPACE. CAPITAL STRUCTURE. DESIGNING CAPITAL GOODS AS A SOCIAL LEARNING PROCESS. CHAPTER 2: A Short History of Software Development. INTRODUCTION. OVERVIEW: FROM RESOURCE CONSTRAINT TO COMPLEXITY CONSTRAINT. THE KEY CHALLENGE: COORDINATING DISTRIBUTED LEARNING. THE EVOLUTION OF PROGRAMMERS CAPITAL GOODS. OBJECT-ORIENTATION AND SOCIAL LEARNING. SUMMARY. CHAPTER 3: Designing New Software Capital. INTRODUCTION. DISCOVERING WHAT THE SOFTWARE MUST "KNOW": WHY PROTOTYPING. DESIGNING AS UNDERSTANDING: THE ROLE OF TOOLS FOR THOUGHT. INTERMEDIATE GOODS FOR DESIGNERS: REUSABLE COMPONENTS AND PATTERNS. SUMMARY. CHAPTER 4: Designing Evolvable Software. INTRODUCTION. EVOLVABILITY AS A DESIGN GOAL. EVOLVABILITY THROUGH MODULARITY. DESIGN PRINCIPLES THAT YIELD MODULARITY. GENERAL COMMENT ON MODULARITY AND SOCIAL LEARNING. ACCELERATING EVOLUTION THROUGH SOFTWARE REUSE. SUMMARY. CHAPTER 5: Extending the Software Capital Structure: The Promise of Component Markets. INTRODUCTION. THE ECONOMIC PARADOX OF SOFTWARE CAPITAL. NEEDED: MARKETS FOR INSTANCES RATHER THAN FOR CODE. ASPECTS OF COMPONENT MARKET EVOLUTION. LEARNING THROUGH MARKETS. SUMMARY. CHAPTER...

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