Agile Management for Software Engineering: Applying the Theory of Constraints for Business Results

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Prentice Hall, 2003. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword. Introduction. Acknowledgements.SECTION I. AGILE MANAGEMENT. 1. Theories for Agile Management.The Theory of Constraints. Just-in-Time Inventory. Quality. Lean Production. Six Sigma. Comparison of Theories. Scientific Proof for Agile Management. Empirical Versus Defined Processes. Convergent Versus Divergent Processes. Chaos Theory and Uncertainty. Systems Thinking and Learning Organizations. Emergence. Summary.2. Management Accounting for Systems.A General System. Detail Complexity Versus Systems Complexity. Throughput Accounting for General Systems. A System of Software Development. A More Complex Software Development System. The System Goal. Financial Metrics for General Business Systems. Financial Metrics for Software Development Systems. Predicting the Future. Framing the Problem. Understanding Software Production in the Value Chain. Throughput Accounting Versus Cost Accounting. Summary.3. TOC in Software Production.TOC's Five Basic Steps. Identify and Exploit Constraints. Perishable Requirements. Idleness Might Breed Contempt. Elevating a Constraint. Focus of Investment. Is the 8-Hour Day the Best Choice of System Constraint? Summary.4. Dealing with Uncertainty.The Five Constraints of Software Development. Aggregation Reduces Uncertainty. Summary.5. Software Production Metrics.Choosing Metrics. Agile Software Production Metrics. Traditional Software Production Metrics. Measuring Inventory in the Software Production System. Expressions of Inventory. Measuring Production Quantity. Lead Time. OE...

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