

Performance Engineering for Critical Enterprise Systems:

Architecture, AI and Resilience

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Abstract

This book presents a comprehensive exploration of performance engineering in mission-critical enterprise environments. It integrates architecture principles, AI-driven optimization, and resilience strategies to design scalable, secure, and self-healing systems for banking, utilities, and cloud platforms.

Preface

In modern enterprise ecosystems, performance engineering is a critical pillar that ensures reliability, scalability, and business continuity. This book bridges theoretical knowledge with practical implementation strategies, providing readers with insights into designing intelligent and resilient systems.

Target Audience

- Software Engineers and Performance Engineers
- Cloud Architects and DevOps Professionals
- Researchers and Academicians
- Technology Leaders and CTOs

Keywords

Performance Engineering, Distributed Systems, Cloud Computing, AI, AIOps, Scalability, Resilience, Banking Systems, Utilities

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