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Nota di contenuto	Chapter 1 - Introduction to AI in Software Architecture -- Chapter 2 - Foundations of Microservices and APIs -- Chapter 3 - AI in Microservices Development -- Chapter 4 - Testing Strategies for Microservices and APIs -- Chapter 5 - Design Patterns and Best Practices for AI-Enhanced API and Microservices -- Chapter 6 - Security in AI-Enhanced Systems -- Chapter 7 - AI-Driven Performance Monitoring and Optimization -- Chapter 8 - Integrating with Other Technologies -- Chapter 9 - Case Studies -- Chapter 10 - Challenges and Considerations -- Chapter 11 The Future of AI-Enhanced Microservices and APIs Conclusion -- Appendix -- Glossary of Terms.
Sommario/riassunto	This book explores how artificial intelligence (AI) is transforming the design and operation of microservices and API architecture. It provides a clear and practical guide to using AI to automate tasks, enhance performance, and improve the scalability of microservice-based systems. Starting with the basics, you will learn about the core concepts of microservices and API design, gradually building an understanding of how AI can be seamlessly integrated. Through real-world examples, visual diagrams, and mock APIs, the book shows you how to bring theory into practice, making complex systems easier to manage and more efficient. You will also discover strategies for testing and scaling systems, securing APIs, and addressing ethical challenges

in AI-powered environments. The book also contains case studies that highlight successful implementations, offering valuable insights you can apply to your own projects. Whether you're a developer, architect, or tech enthusiast, this book gives you the tools and inspiration to build smarter, more resilient systems while staying ahead of future trends in AI and distributed computing. What You'll Learn: Understand the basics of microservices and API design and see how AI can make these systems smarter and more efficient. Discover how to use AI in microservices and APIs to automate tasks, improve performance, and boost security. Learn how to design scalable and secure systems by following best practices and innovative approaches. Get practical tips on troubleshooting and solving challenges in AI-powered microservice architectures.

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