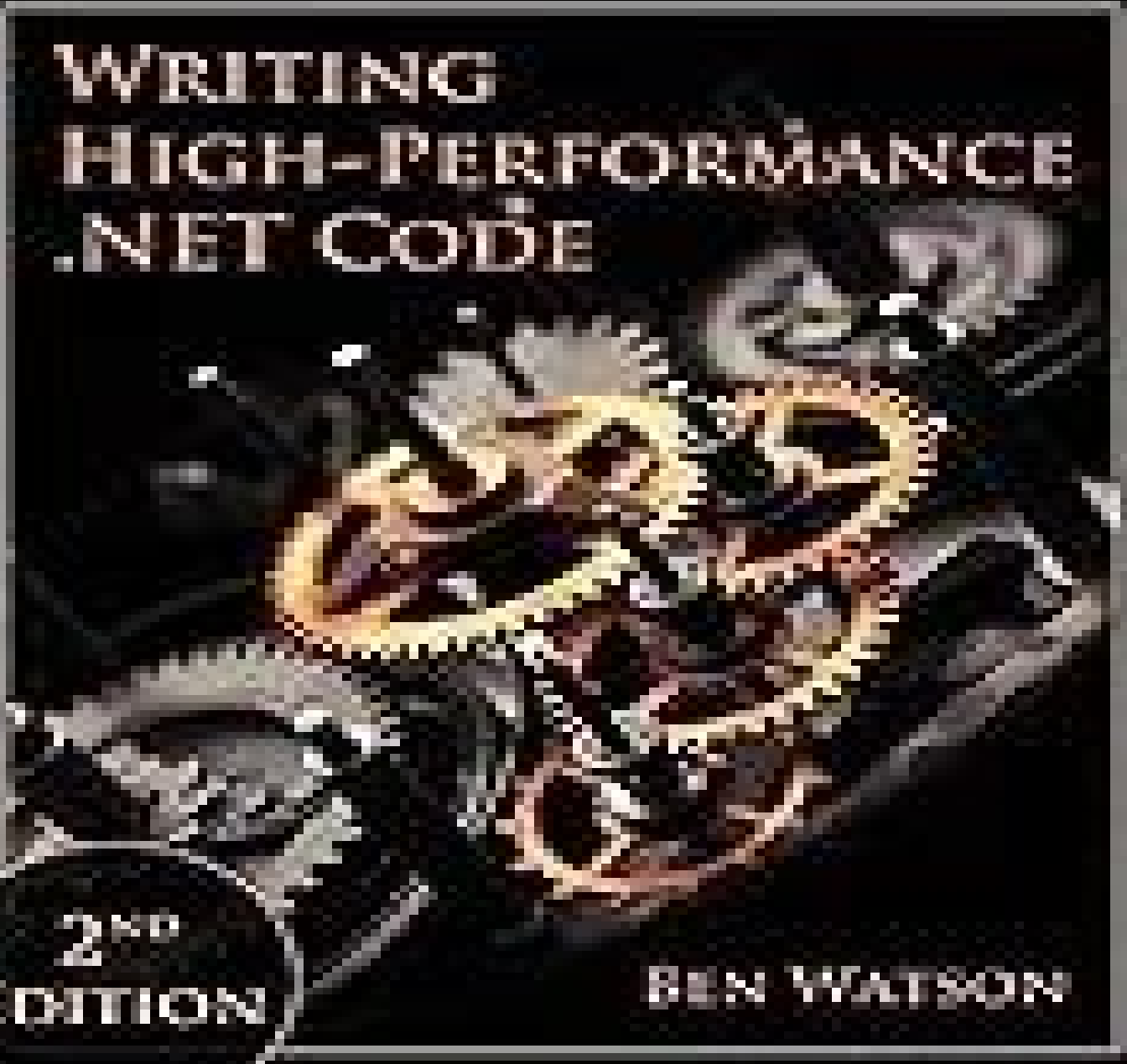


WRITING HIGH-PERFORMANCE .NET CODE



2ND
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BEN WATSON

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High-Performance Programming in C# and .NET Jason Alls,2022-07-29 Enhance your applications performance using best practices for benchmarking application profiling asynchronous programming designing responsive UIs gRPC communication and distributed applications Key Features Make the best use of performance enhancements in C 10 0 and NET 6 Boost application performance by identifying hardware bottlenecks and common performance pitfalls Get to grips with best practices and techniques for improving the scalability of distributed systems Book Description Writing high performance code while building an application is crucial and over the years Microsoft has focused on delivering various performance related improvements within the NET ecosystem This book will help you understand the aspects involved in designing responsive resilient and high performance applications with the new version of C and NET You will start by understanding the foundation of high performance code and the latest performance related improvements in C 10 0 and NET 6 Next you ll learn how to use tracing and diagnostics to track down performance issues and the cause of memory leaks The chapters that follow then show you how to enhance the performance of your networked applications and various ways to improve directory tasks file tasks and more Later you ll go on to improve data querying performance and write responsive user interfaces You ll also discover how you can use cloud providers such as Microsoft Azure to build scalable distributed solutions Finally you ll explore various ways to process code synchronously asynchronously and in parallel to reduce the time it takes to process a series of tasks By the end of this C programming book you ll have the confidence you need to build highly resilient high performance applications that meet your customer s demands What you will learn Use correct types and collections to enhance application performance Profile benchmark and identify performance issues with the codebase

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