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Practical Reliability of
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and Products will help electrical, electronics, manufacturing, mechanical, systems design, and reliability engineers; electronics production managers; electronic circuit designers; and upper-level undergraduate and graduate students in these disciplines.

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Create, deploy, and
manage applications
at scale using SRE

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Features Build and run
highly available,
scalable, and secure

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way Enhance the
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Description Site

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as the most

competent paradigm

in establishing and

ensuring next-

generation high-

quality software

solutions. This book

starts by introducing

you to the SRE

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deployment,
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teaches you to set up
and sustain
containerized cloud
environments, and
also covers
architectural and
design patterns and
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techniques such as reactive programming, and languages such as Ballerina and Rust. In the concluding chapters, you will get well-versed with service mesh solutions such as Istio and Linkerd, and understand service resilience test practices, API

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book, you will have
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emerging domain of

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process of designing,

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developing,
debugging, and
deploying highly
reliable applications
and services.

The overwhelming
majority of a software
system's lifespan is
spent in use, not in
design or
implementation. So,
why does
conventional wisdom

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insist that software engineers focus primarily on the design and development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has

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Reliability Engineering
enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to

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Introduction—Learn what site reliability engineering is and why it differs from conventional IT industry practices

Principles—Examine the patterns, behaviors, and areas of concern that influence the work of

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In 2016, Google's Site Reliability Engineering book ignited an industry discussion on what it means to run production services today—and why reliability considerations are fundamental to service design. Now,

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