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Today, software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between

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present a candid and insightful look at how some of the world's leading practitioners construct and maintain software. This book covers Google's unique engineering culture, processes, and tools and how these aspects contribute to the effectiveness of an engineering organization. You'll explore three

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plays a role in each phase. The factors that should be considered and the pitfalls that should be avoided while designing the SCM system and SCM plan are also discussed. In addition, this third edition is updated to include cloud computing and on-demand systems. This book does not rely on one specific tool or standard for

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explaining the SCM concepts and techniques; In fact, it gives readers enough information about SCM, the mechanics of SCM, and SCM implementation, so that they can successfully implement a SCM system.

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such as composition versus inheritance
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Covers key topics such as polymorphism,
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examples are given in C# and/or C++,
often demonstrating alternative solutions,
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of Software Essentials: Design and Construction. About the Cover: Although capacity may be a problem for a doghouse, other requirements are usually minimal. Unlike skyscrapers, doghouses are simple units. They do not require plumbing, electricity, fire alarms, elevators, or ventilation systems, and they do not need

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to be built to code or pass inspections. The range of complexity in software design is similar. Given available software tools and libraries—many of which are free—hobbyists can build small or short-lived computer apps. Yet, design for software longevity, security, and efficiency can be intricate—as is the design

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of large-scale systems. How can a software developer prepare to manage such complexity? By understanding the essential building blocks of software design and construction.

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