Bug Patterns in Java

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"Bug Patterns in Java" presents a methodology for diagnosing and debugging computer programs. The act of debugging will be presented as an ideal application of the scientific method. Skill in this area is entirely independent of other programming skills, such as designing for extensibility and reuse. Nevertheless, it is seldom taught

explicitly. Eric Allen lays out a theory of debugging, and how it relates to the rest of the development cycle. In particular, he stresses the critical role of unit testing in effective debugging. At the same time, he argues that testing and debugging, while often conflated, are properly considered to be distinct tasks. Upon laying this groundwork, Allen then discusses various "bug patterns" (recurring relationships between signaled errors and underlying bugs in a program) that occur frequently in computer programs. For each pattern, the book discusses how to identify them, how to treat them, and how to prevent them.

作者介绍:

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