

[PDF] Modern C++ Design: Generic Programming And Design Patterns Applied

Andrei Alexandrescu - pdf download free book



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Description:

In **Modern C++ Design**, Andrei Alexandrescu opens new vistas for C++ programmers. Displaying extraordinary creativity and programming virtuosity, Alexandrescu offers a cutting-edge approach to design that unites design patterns, generic programming, and C++, enabling programmers to achieve expressive, flexible, and highly reusable code.

This book introduces the concept of generic components—reusable design templates that produce boilerplate code for compiler consumption—all within C++. Generic components enable an easier and more seamless transition from design to application code, generate code that better expresses the original design intention, and support the reuse of design structures with minimal recoding.

The author describes the specific C++ techniques and features that are used in building generic components and goes on to implement industrial strength generic components for real-world applications. Recurring issues that C++ developers face in their day-to-day activity are discussed in depth and implemented in a generic way. These include:

- Policy-based design for flexibility
- Partial template specialization
- Typelists—powerful type manipulation structures
- Patterns such as Visitor, Singleton, Command, and Factories
- Multi-method engines

For each generic component, the book presents the fundamental problems and design options, and finally implements a generic solution.

In addition, an accompanying Web site, <http://www.awl.com/cseng/titles/0-201-70431-5>, makes the code implementations available for the generic components in the book and provides a free, downloadable C++ library, called Loki, created by the author. Loki provides out-of-the-box functionality for virtually any C++ project.

Get a value-added service! Try out all the examples from this book at www.codesaw.com. CodeSaw is a free online learning tool that allows you to experiment with live code from your book right in your browser.

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