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C++ Template Metaprogramming: Concepts, Tools, and Techniques from Boost and Beyond

By Abrahams, David; Gurtovoy, Aleksey

Addison-Wesley Professional, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Acknowledgments.Making the Most of This Book.1. Introduction.Getting Started.So What's a Metaprogram?Metaprogramming in the Host Language.Metaprogramming in C++.Why Metaprogramming? When Metaprogramming?Why a Metaprogramming Library?2. Traits and Type Manipulation.Type Associations.Metafunctions.Numerical Metafunctions.Making Choices at Compile Time.A Brief Tour of the Boost Type Traits Library.Nullary Metafunctions.Metafunction Definition.History.Details.Exercises.3. A Deeper Look at Metafunctions.Dimensional Analysis.Higher-Order Metafunctions.Handling Placeholders.More Lambda Capabilities.Lambda Details.Details.Exercises.4. Integral Type Wrappers and Operations.Boolean Wrappers and Operations.Integer Wrappers and Operations.Exercises.5. Sequences and Iterators.Concepts.Sequences and Algorithms.Iterators.Iterator Concepts.Sequence Concepts.Sequence Equality.Intrinsic Sequence Operations.Sequence Classes.Integral Sequence Wrappers.Sequence Derivation.Writing Your Own Sequence.Details.Exercises.6. Algorithms.Algorithms, Idioms, Reuse, and Abstraction.Algorithms in the MPL.Inserters.Fundamental Sequence Algorithms.Querying Algorithms.Sequence Building Algorithms.Writing Your Own

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