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About the Author Ivan ?uki? is a core developer at KDE and has been coding in C++ since 1998. He teaches modern C++ and functional programming at the Faculty of Mathematics at the

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features that either improve templates or interact with them, including variadic templates, generic lambdas, class template argument deduction, compile-time if, forwarding references, and user-defined literals. They also deeply delve into fundamental language concepts (like value

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categories) and fully cover all standard type traits. The book starts with an insightful tutorial on basic concepts and relevant language features. The remainder of the book serves as a comprehensive reference, focusing first on language details and then on

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coding techniques,
advanced
applications, and
sophisticated idioms.

Throughout,
examples clearly
illustrate abstract
concepts and
demonstrate best
practices for
exploiting all that C++
templates can do.

Understand exactly
how templates

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behave, and avoid
common pitfalls Use
templates to write
more efficient,
flexible, and
maintainable software
Master today's most
effective idioms and
techniques Reuse
source code without
compromising
performance or safety
Benefit from utilities
for generic

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programming in the
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