

C++ Training

Literature

Klaus Iglberger

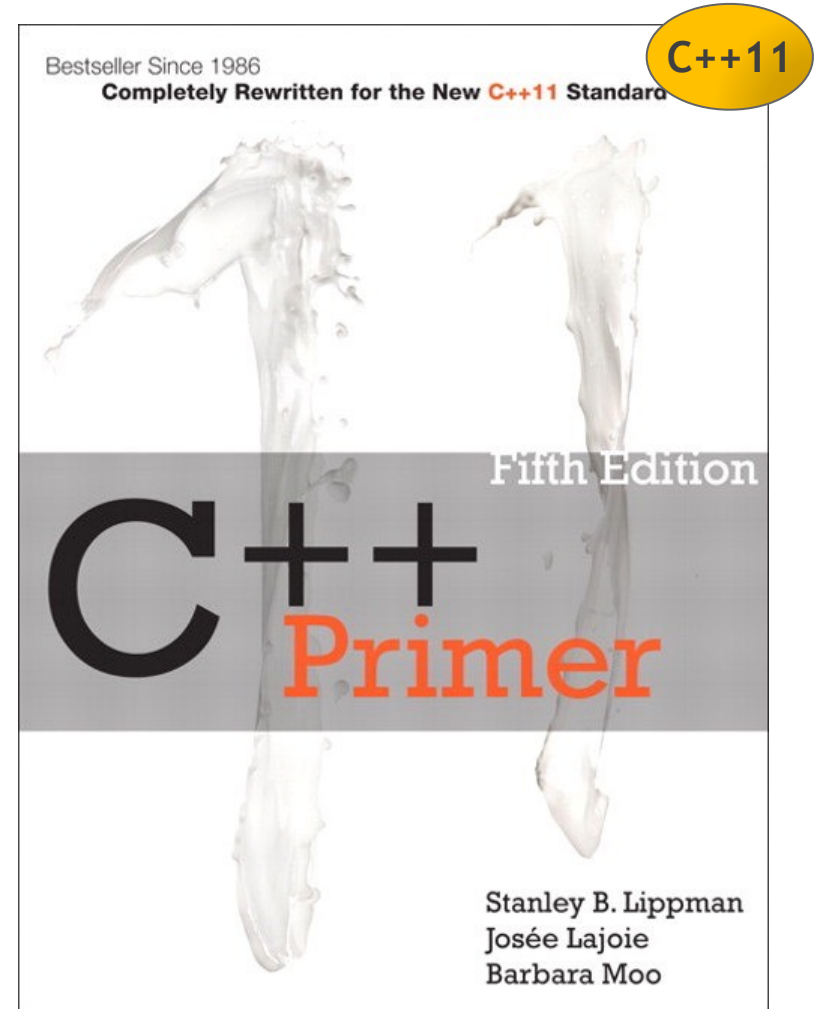
Content

1. C++ Primers and References
2. Advanced C++ Programming
3. C++ Software Design
4. Refactoring and Testing
5. Performance Optimization
6. Professional Programming

1. C++ Primers and References

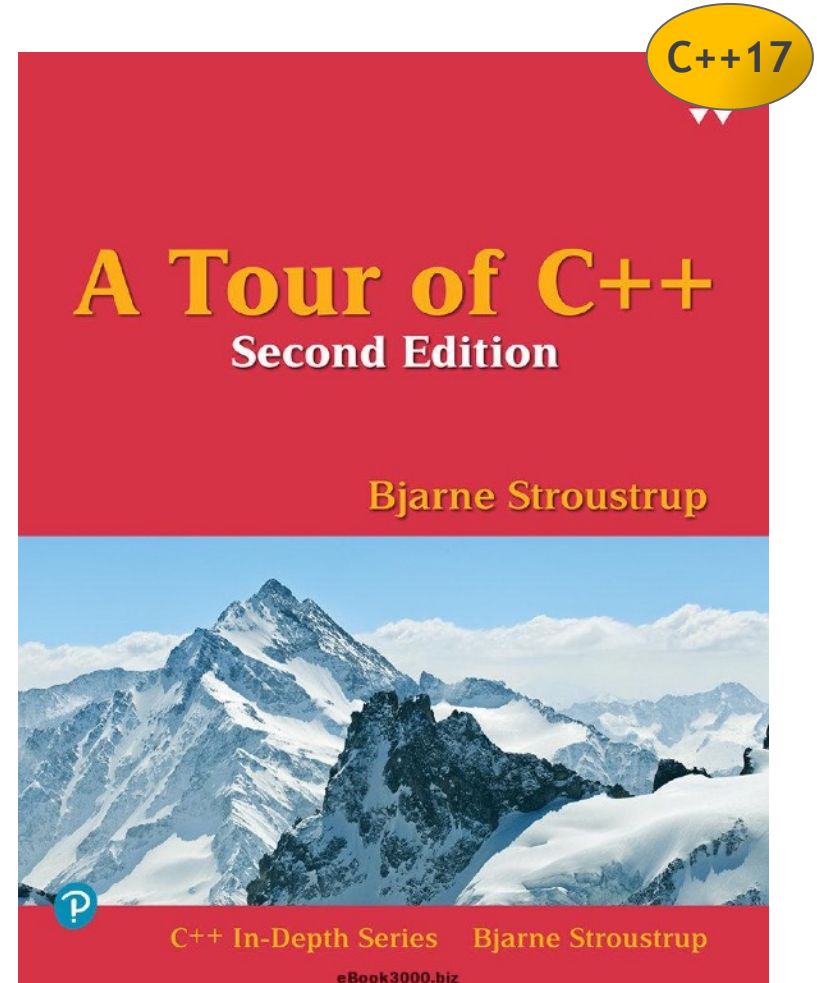
C++ Primer

- Very well written introduction to C++
- Completely rewritten for C++11
- Proper introduction of C++ concepts and idioms
- ISBN-10: 9780321714114
- ISBN-13: 978-0321714114



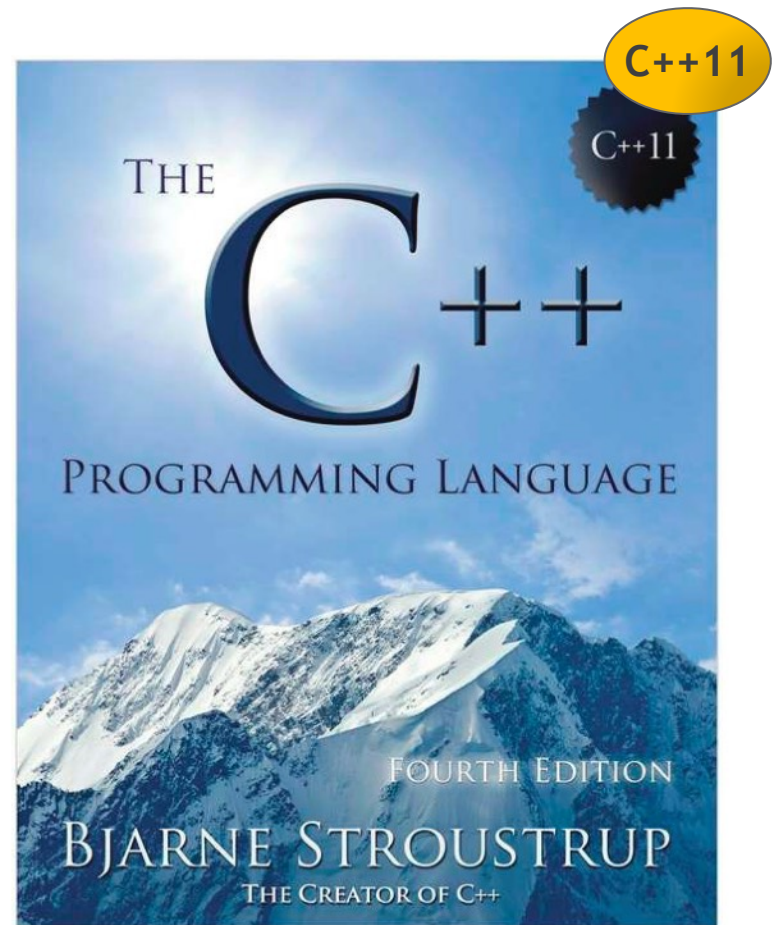
A Tour of C++

- Great overview of C++17
- Excellent opportunity to upgrade your C++ knowledge (only 256 pages)
- From the inventor of C++ himself
- ISBN-10: 0134997832
- ISBN-13: 978-0134997834



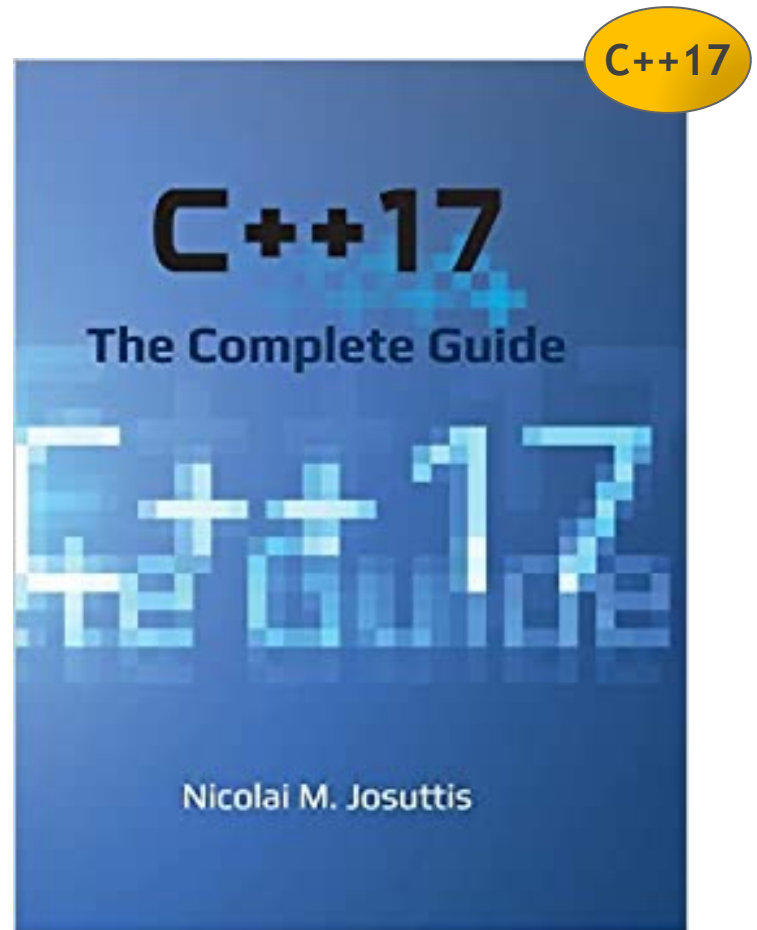
The C++ Programming Language

- C++11 introduction by the inventor of C++ himself
- Contains all details in a terse form
- More suited as a reference for the advanced and professional programmer
- ISBN-10: 0321958322
- ISBN-13: 978-0321958327



C++17 - The Complete Guide

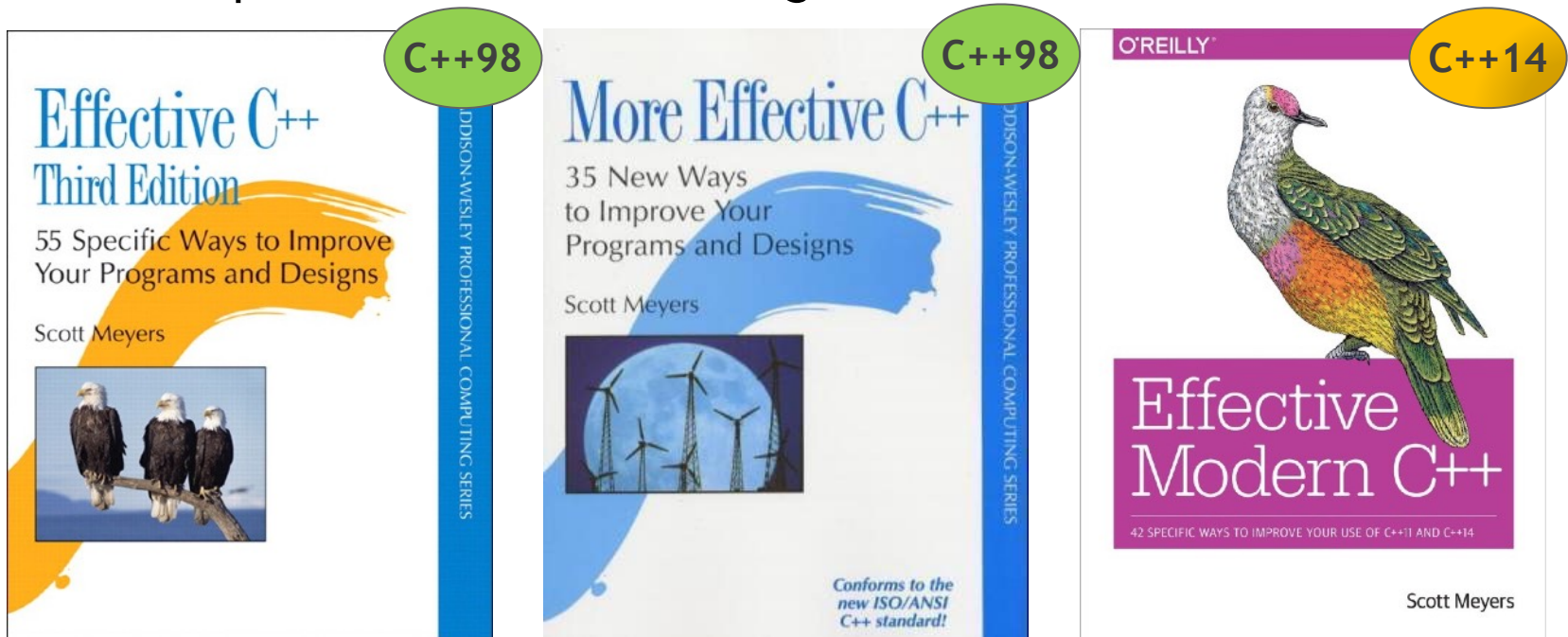
- A complete overview of C++17, introduced by an expert
- Contains all the C++17, including code examples
- Best introduction to C++17 polymorphic memory resources
- ISBN-10: 396730017X
- ISBN-13: 978-3967300178



2. Advanced C++ Programming

Effective C++

- *The* classic book on better software design with C++
- Many language details, good explanations and examples
- “Must-read” for every serious C++ programmer
- Basis for a special set of Lint warnings



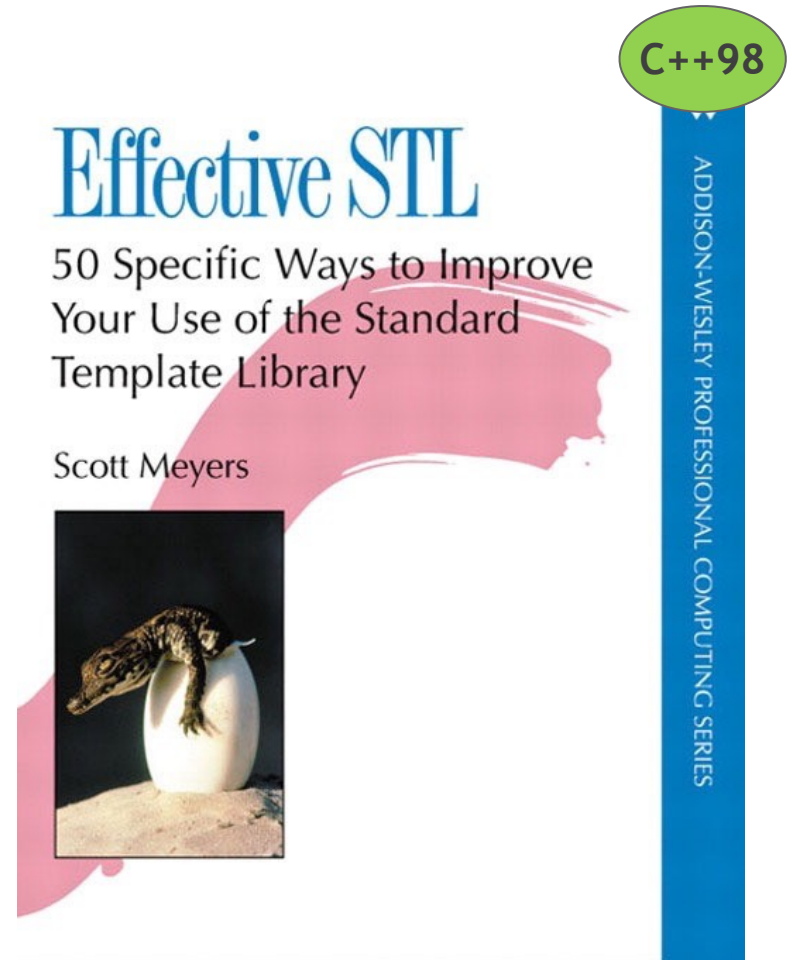
- ISBN-10: 0321334876
- ISBN-13: 978-0321334879

- ISBN-10: 020163371X
- ISBN-13: 978-0201633719

- ISBN-10: 9781491903995
- ISBN-13: 978-1491903995

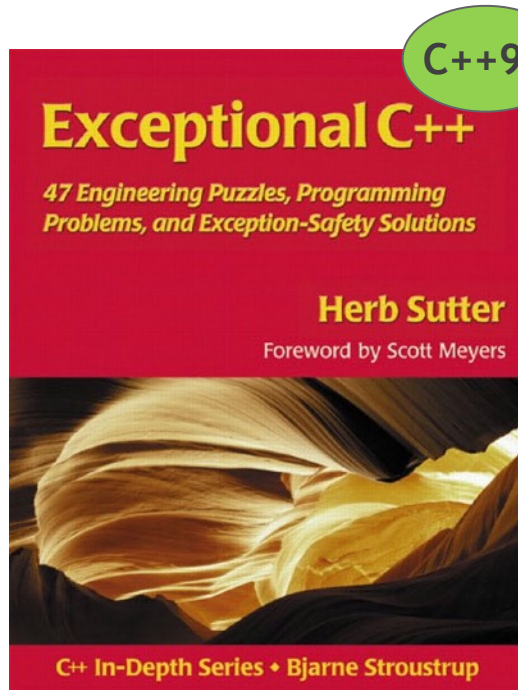
Effective STL

- 2nd successor of Effective C++
- Introduces proper use of the S(T)L
- Also a “must-read” for every C++ programmer
- ISBN-10: 0201749629
- ISBN-13: 978-0201749625

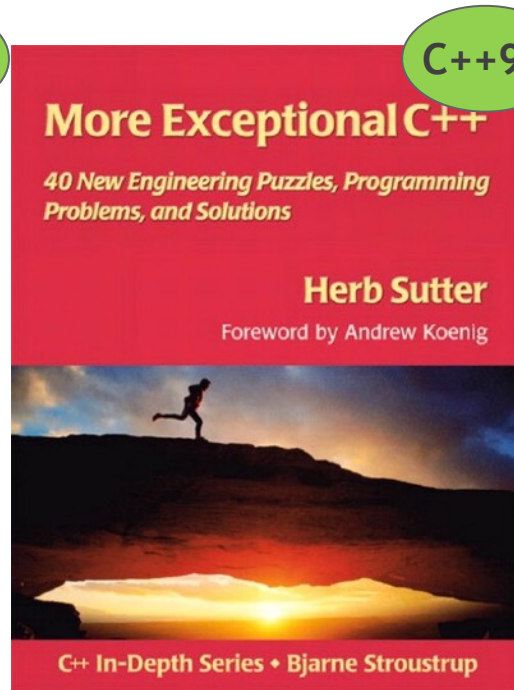


Exceptional C++

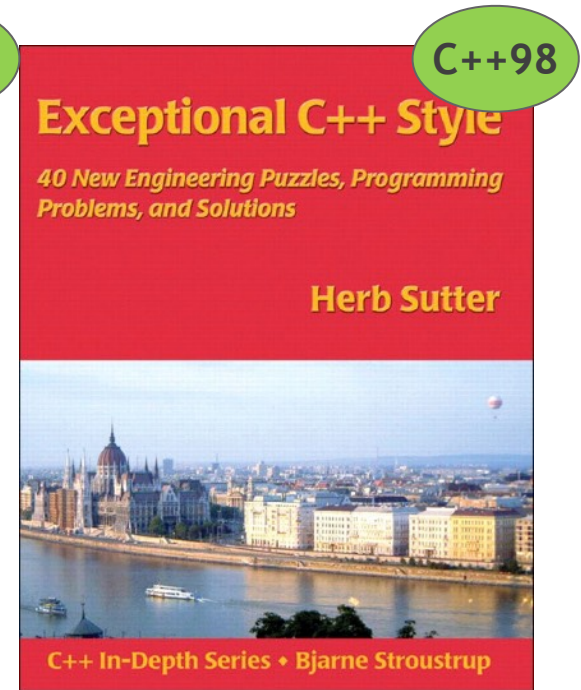
- Highly informative and entertaining
- Same item-based structure as Effective C++
- “Must-read” for every serious C++ programmer



- ISBN-10: 0201615622
- ISBN-13: 978-0201615623



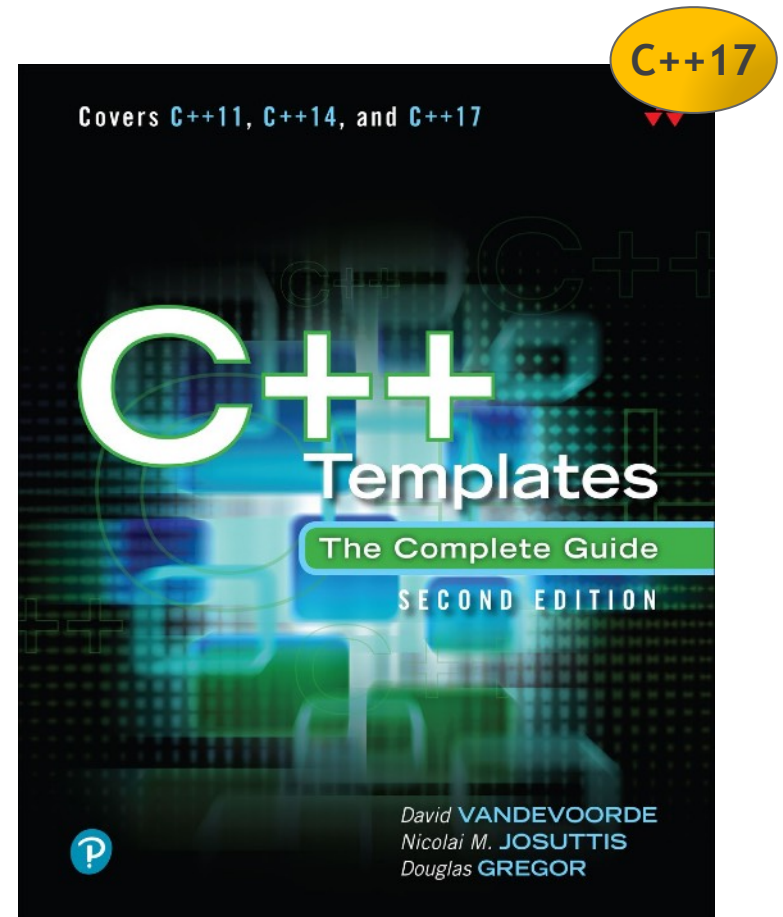
- ISBN-10: 020170434X
- ISBN-13: 978-0201704341



- ISBN-10: 0201760428
- ISBN-13: 978-0201760422

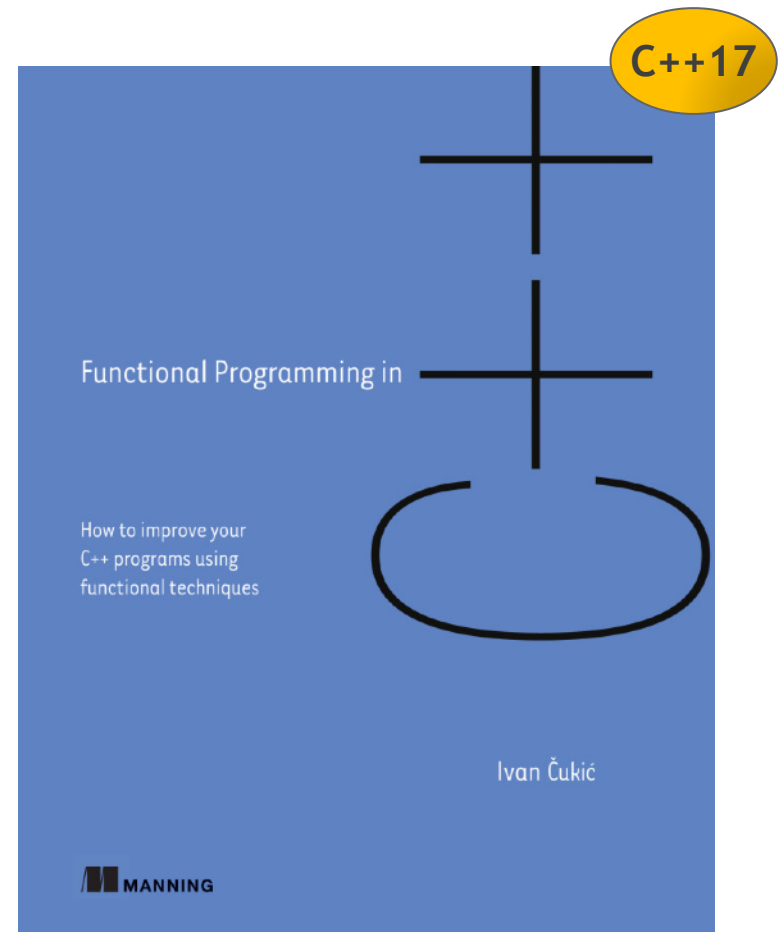
C++ Templates - The Complete Guide

- *The* book on C++ templates
- Contains all details about all aspects of template programming
- Highly recommended as reference
- ISBN-10: 0321714121
- ISBN-13: 978-0321714121



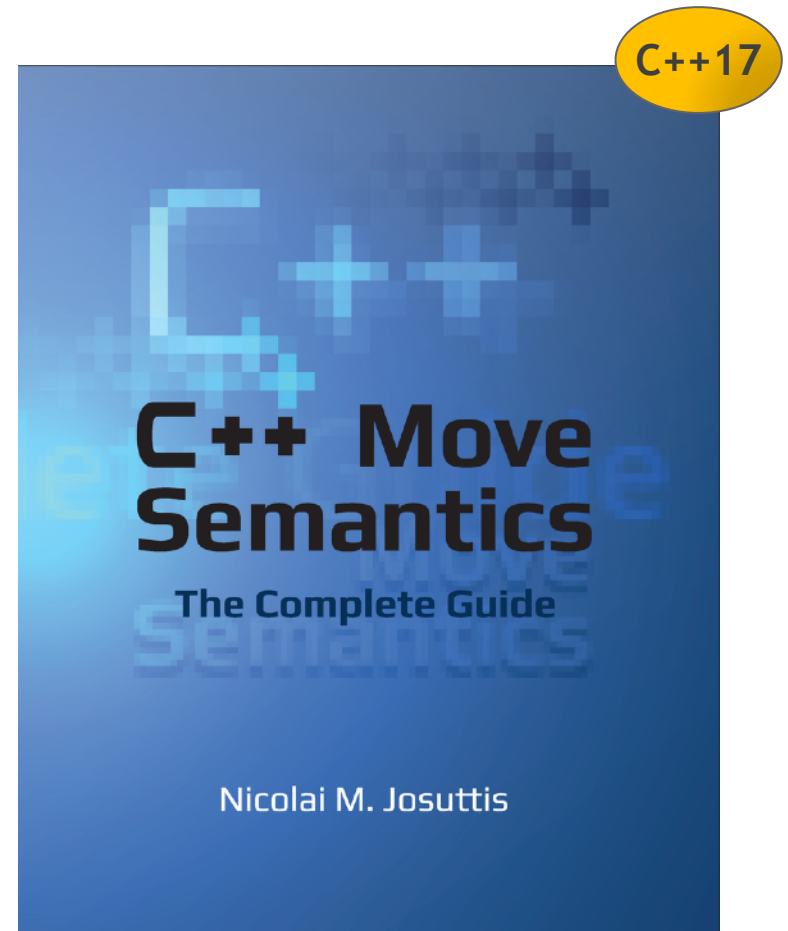
Functional Programming in C++

- *The* best book on function programming in C++
- Very good introduction to functional programming concepts
- Very recommended
- ISBN-10: 1617293814
- ISBN-13: 978-1617293818



C++ Move Semantics - The Complete Guide

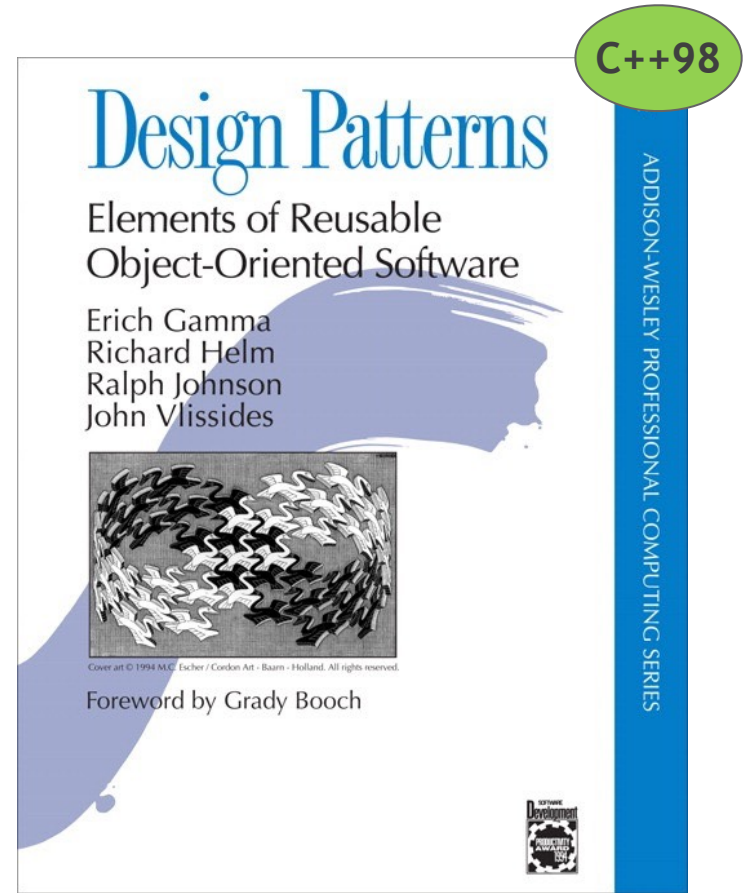
- Everything about C++ move semantics
- From the basics to advanced problems and questions
- ISBN-10: 3967309002
- ISBN-13: 978-3967309003



3. C++ Software Design

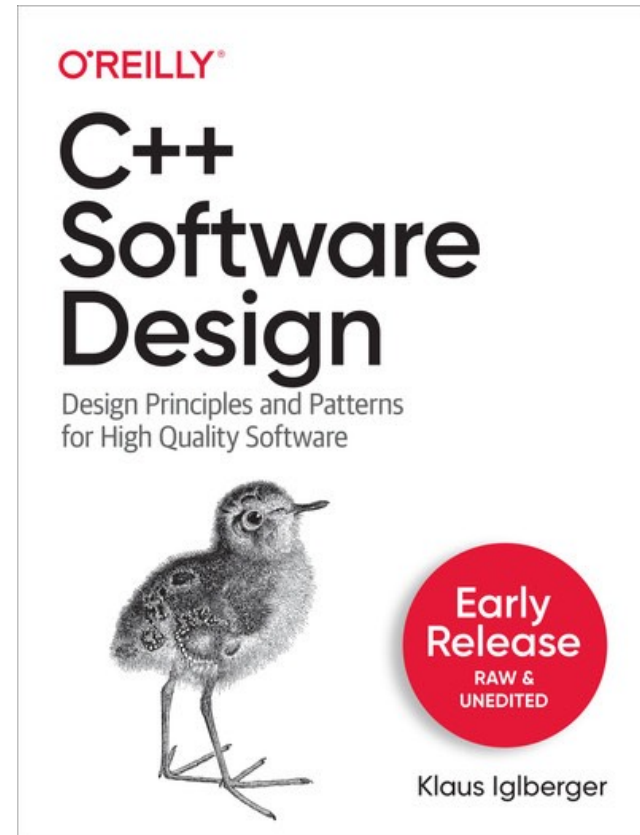
Design Patterns

- The “Gang of Four” (GoF) book
- *The good old reference on classical design patterns*
- Highly recommended
- ISBN-10: 0201633612
- ISBN-13: 978-0201633610



C++ Software Design

- The best book on software design with C++ (completely objectively, really!)
- Introduction to classic and modern C++ design patterns
- Covers implementation details
- Published in the second half of 2022
- <https://learning.oreilly.com/library/view/c-software-design/9781098113155/>



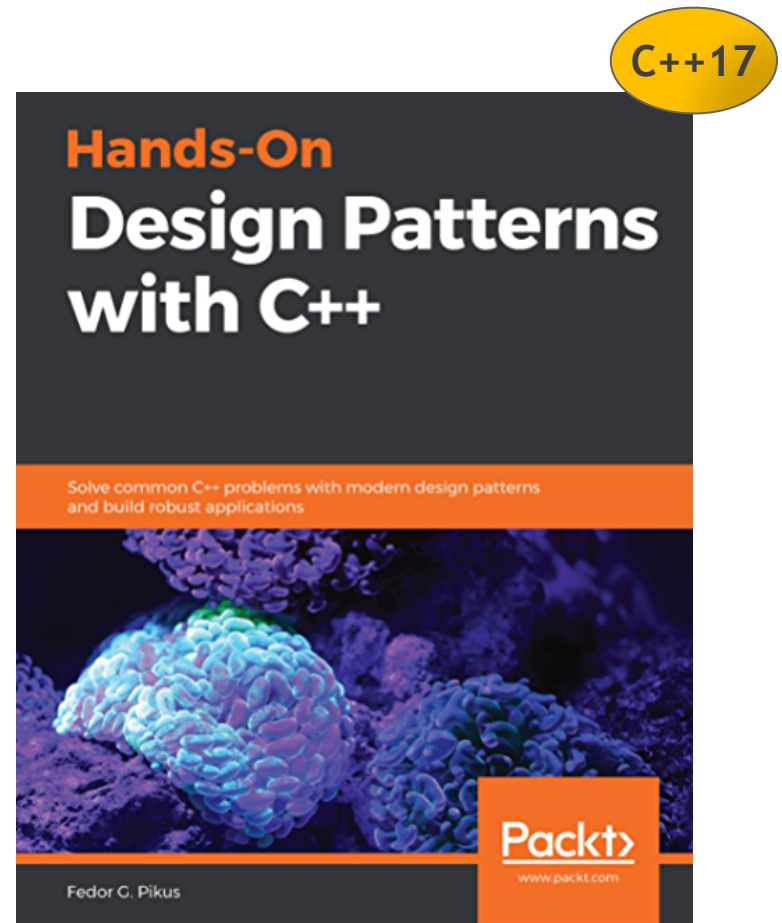
Head First Design Patterns (2nd Edition)

- One of the most instructive books on classic design patterns
- Recommended to get an impression on the OO implementation of patterns
- ISBN-10: 149207800X
- ISBN-13: 978-1492078005



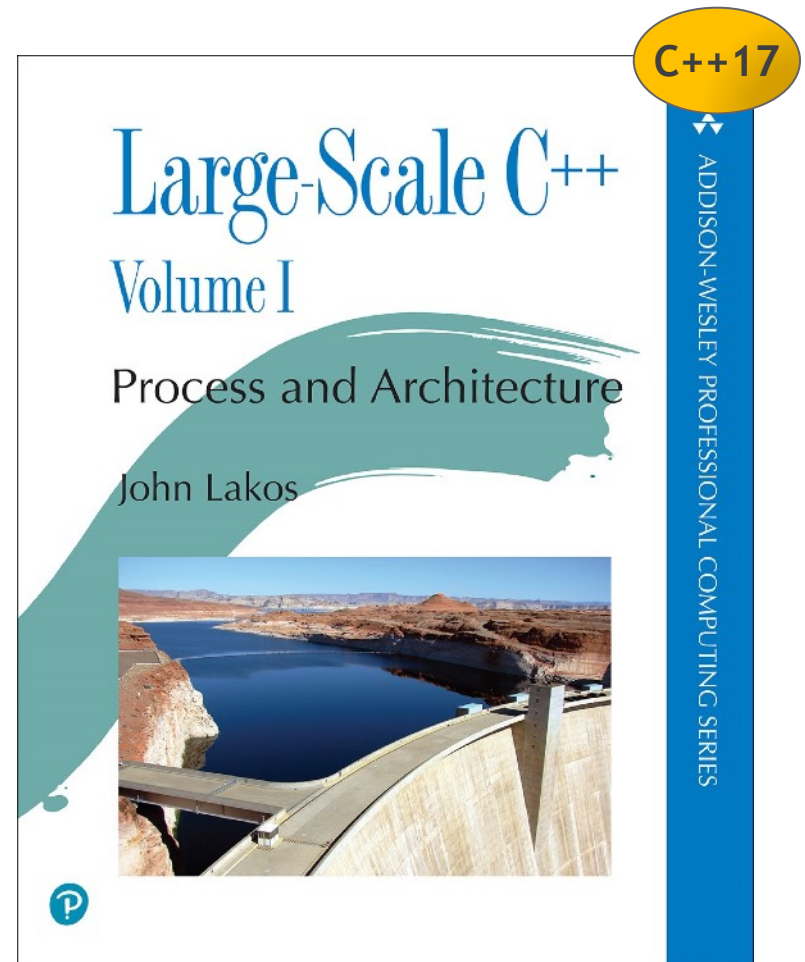
Hands-On Design Patterns with C++

- Technically up-to-date introduction to many C++ design patterns
- A little implementation heavy
- ISBN-10: 1788832566
- ISBN-13: 978-1788832564



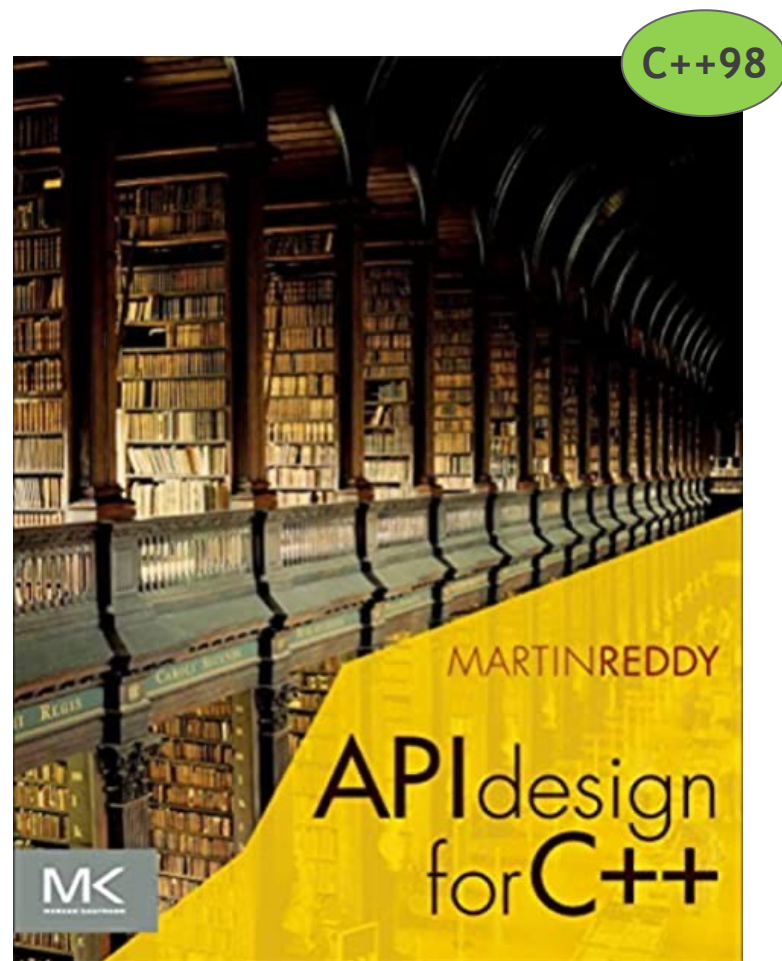
Large-Scale C++ (Volume I)

- Complete overview on software design and architecture
- Lots of important guidelines
- Very valuable for very C++ developer
- ISBN-10: 0201717069
- ISBN-13: 978-0201717068



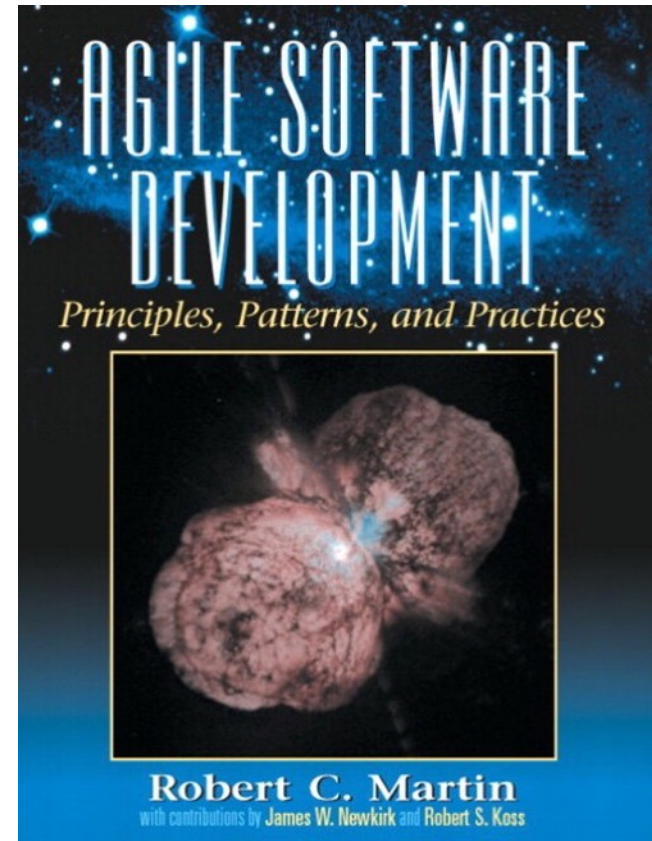
API Design for C++

- Good overview of different aspects of API design
- From implementation details to design patterns
- ISBN-10: 0123850037
- ISBN-13: 978-0123850034



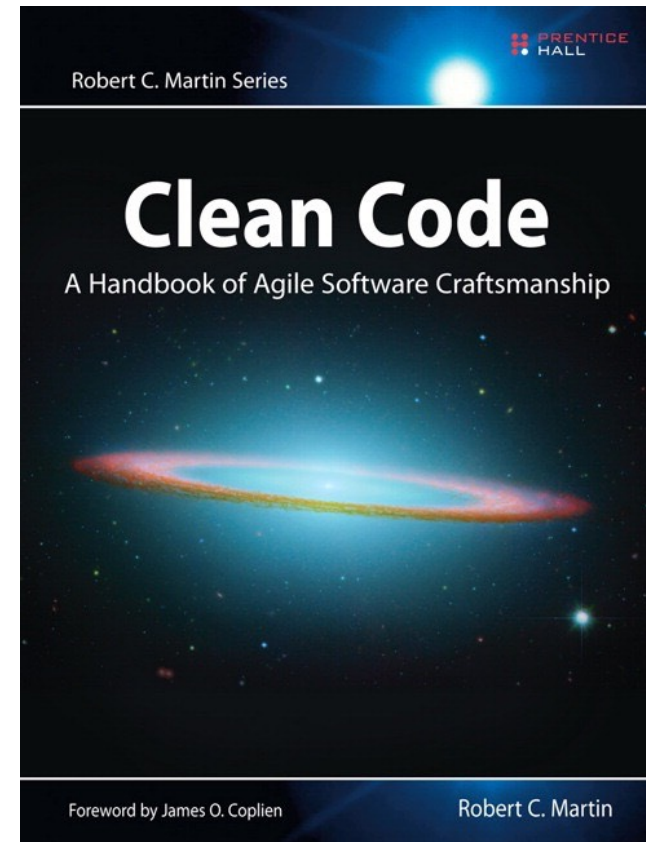
Agile Software Developement

- One of the best book on the principles of agile software development
- Emphasis on design for change
- Very well written chapters on the basic principles of OO software design
- Highly recommended
- ISBN-10: 1292025948
- ISBN-13: 978-1292025940



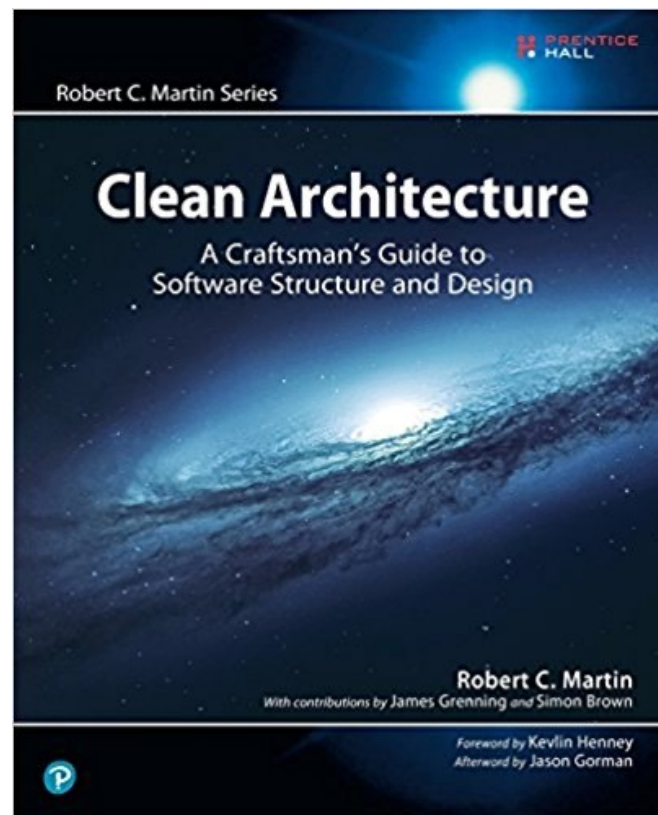
Clean Code

- Very well written book on all aspects of “Clean Code”
- Must-read for every professional C++ programmer
- ISBN-10: 9780132350884
- ISBN-13: 978-0132350884



Clean Architecture

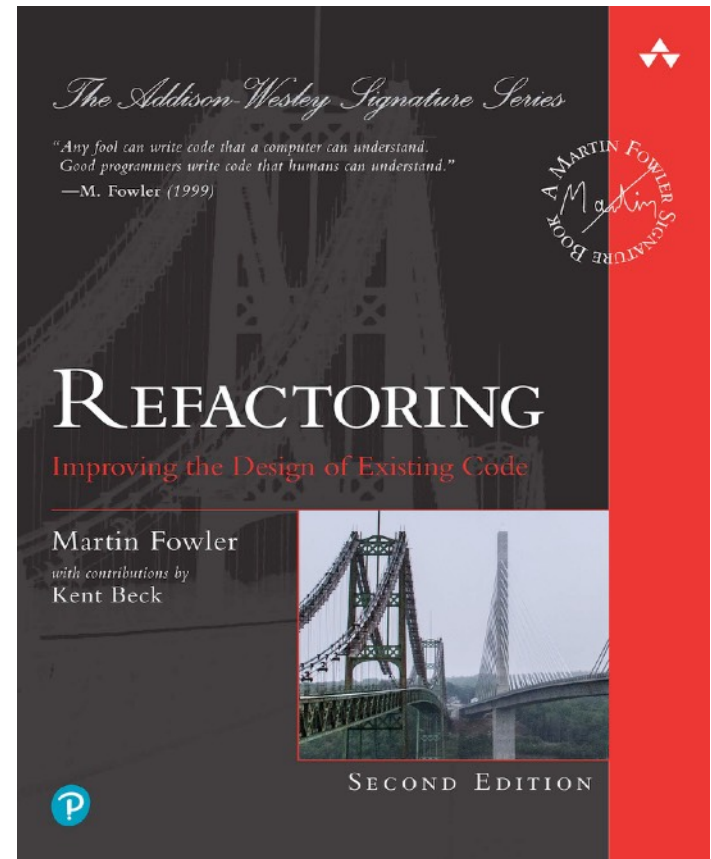
- Very good overview of software design/architecture
- Very recommended for every software developer
- ISBN-10: 0134494164
- ISBN-13: 978-0134494166



4. Refactoring and Testing

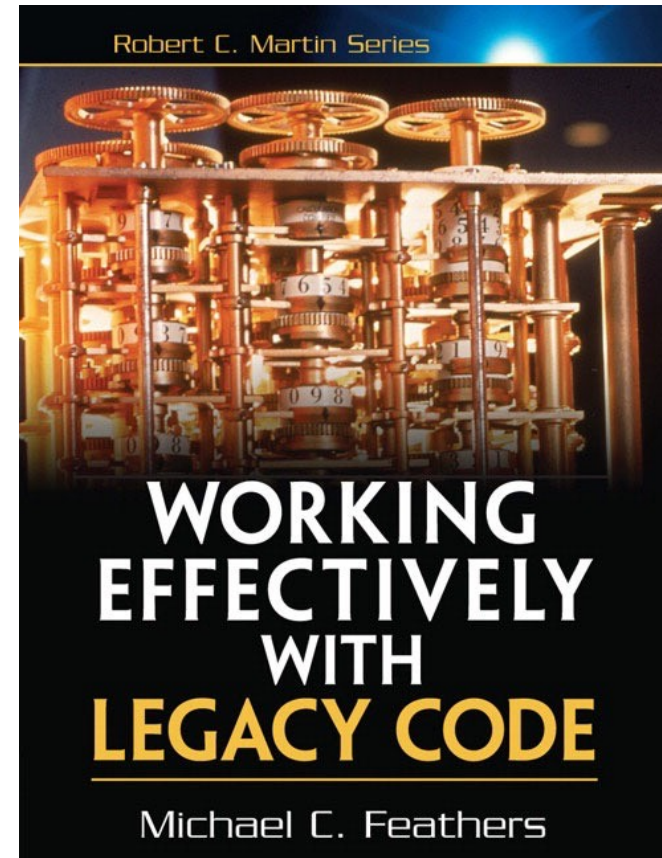
Refactoring

- Best available reference on refactoring techniques
- Well structured and written
- Recommended as reference for refactoring efforts
- ISBN-10: 0134757599
- ISBN-13: 978-0134757599



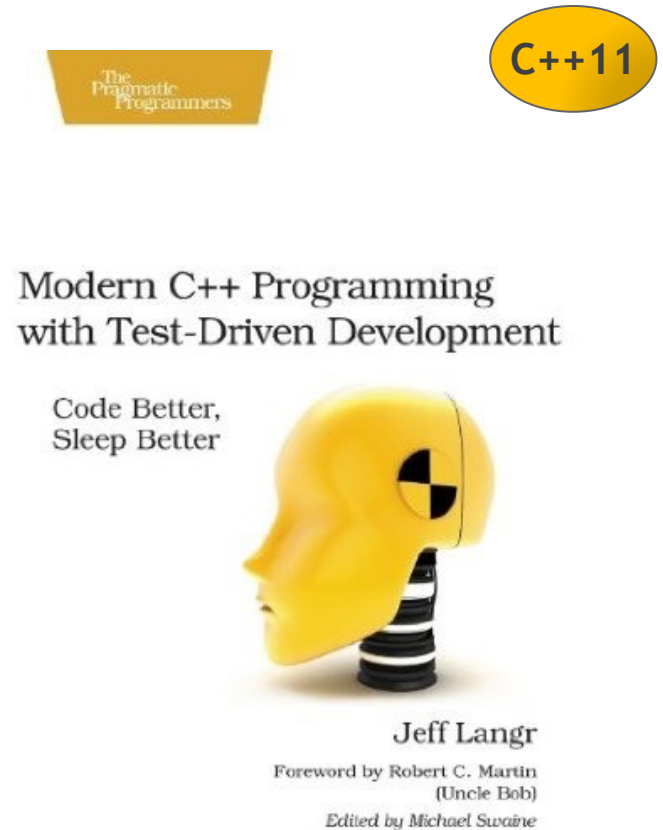
Working Effectively with Legacy Code

- Brilliant definition of legacy code
- Best available reference on how to work with legacy code
- Well suited structure
- Recommended for nearly all companies ;-)
- ISBN-10: 0131177052
- ISBN-13: 978-0131177055



Modern C++ Programming with Test-Driven Development

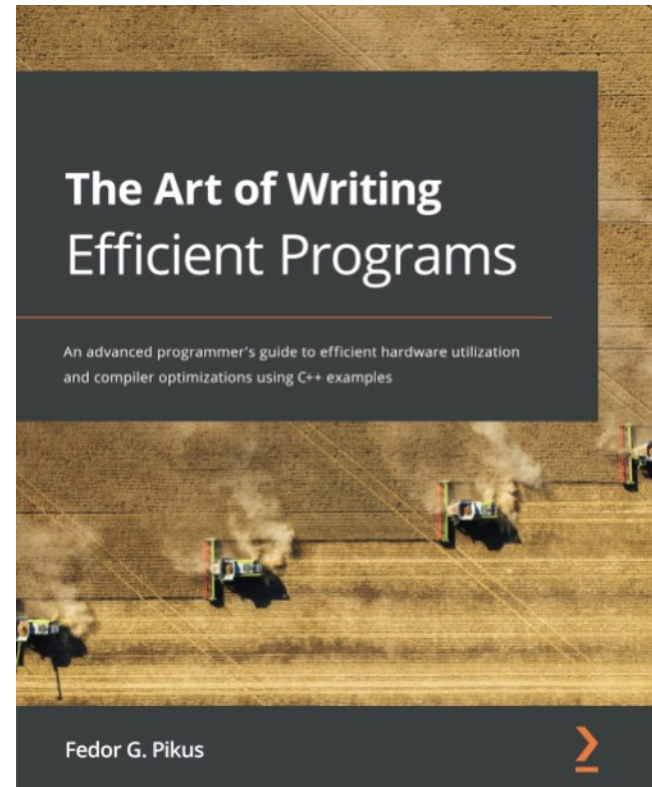
- Very thorough introduction to TDD
- Good examples
- Contains chapters on multithreaded tests
- Must-read for all companies ;-)
- ISBN-10: 1937785483
- ISBN-13: 978-1937785482



5. Performance Optimization

The Art of Writing Efficient Programs

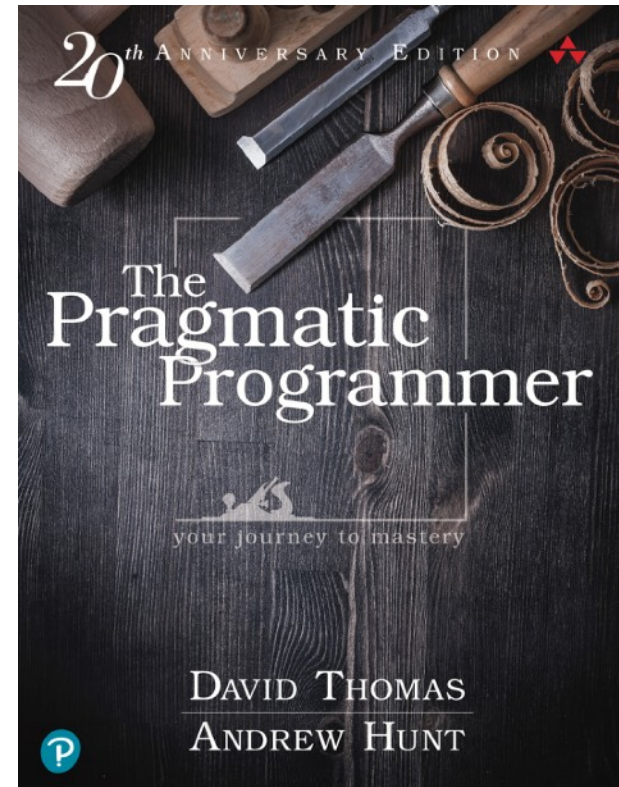
- Lots of advice on all aspects of performance
- Practical advice on how to benchmark performance
- ISBN-10: 1800208111
- ISBN-13: 978-1800208117



6. Professional Programming

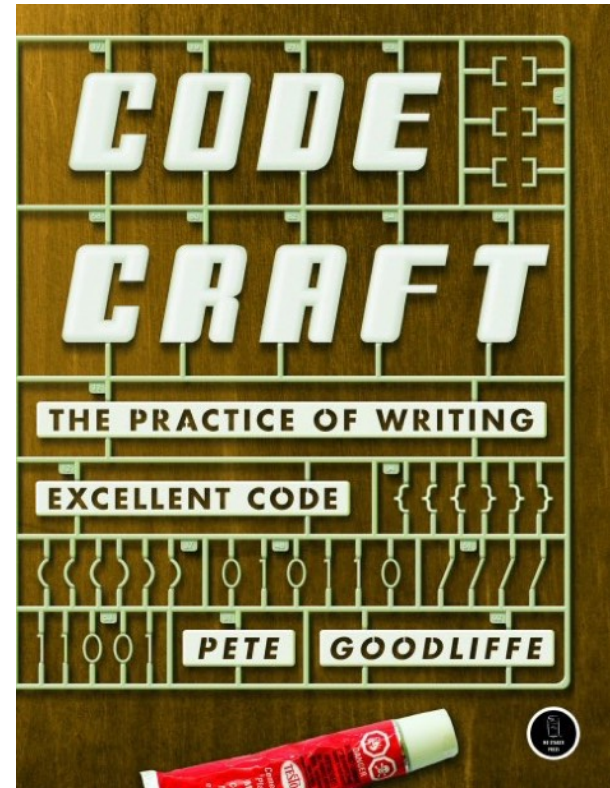
The Pragmatic Programmer

- Expert advise on all aspects of every day software development
- Recommended read for every serious software programmer
- ISBN-10: 0135957052
- ISBN-13: 978-0135957059



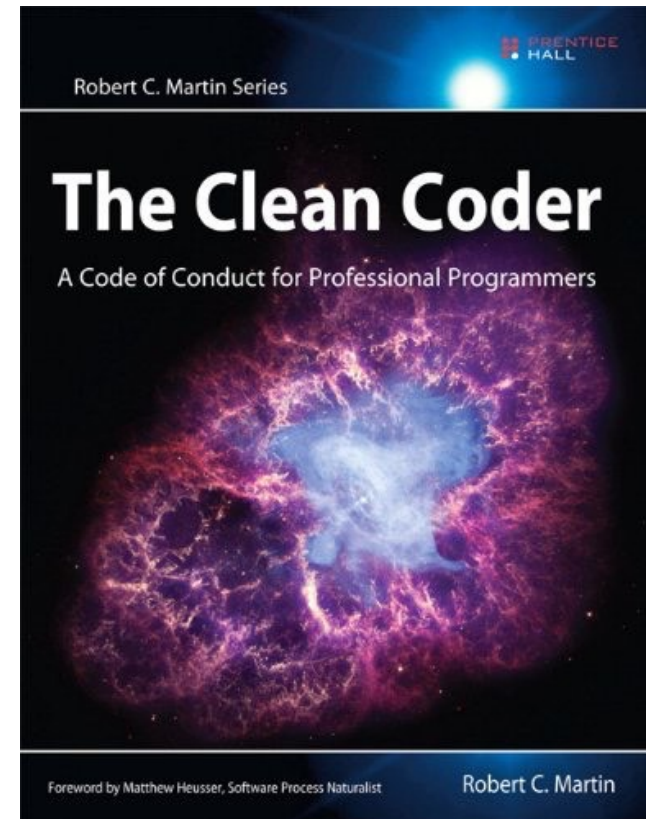
Code Craft: The Practice of Writing Excellent Code

- Practical advice for the daily work in the “software factory”
- Recommended read for every software developer
- ISBN-10: 1593271190
- ISBN-13: 978-1593271190



The Clean Coder

- Successor of Clean Code
- Focus on the programmer himself
- Recommended for every aspiring professional
- ISBN-10: 0137081073
- ISBN-13: 978-0137081073



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Xing: [xing.com/profile/Klaus_Iglberger/cv](https://www.xing.com/profile/Klaus_Iglberger/cv)