

Literature

Lattice theory

- Lecture notes on lattice theory by Prof. M. Laine (recommended reading)
<http://www.physik.uni-bielefeld.de/~laine/lattice/cover.html>
- I. Montvay, G. Münster: Quantum Fields on a Lattice
Cambridge, UK: Univ. Pr. (1994) 491 p. (Cambridge monographs on mathematical physics)
- Heinz J. Rothe: Lattice Gauge Theories, An introduction
World Scientific Lecture Notes in Physics - Vol 74
- Jan Smit: Introduction to quantum fields on a lattice: A robust mate
Cambridge Lect.Notes Phys. 15 (2002)
- C. Gattringer, C.B. Lang: Quantum Chromodynamics on the Lattice
Lecture Notes in Physics 788, Springer

C Programming

- For those with no C programming experience please work through:
<http://www.cprogramming.com/tutorial/c-tutorial.html>
- Brian W. Kernighan, Dennis M. Ritchie: The C Programming Language (2nd edition)
ISBN-13: 007-6092003106 ISBN-10: 0131103628
Solution to exercises <https://github.com/ccpalettes/the-c-programming-language-second-edition-solutions>
- K.N. King: C Programming: A Modern Approach
ISBN-13: 978-0393969450 ISBN-10: 0393969452
- K. Reek: Pointers on C
ISBN-13: 978-0673999863 ISBN-10: 0673999866
- Z. A. Shaw: Learn C The Hard Way
<http://c.learncodethehardway.org/>
See especially Chapter 4 for the use of the debugger "Valgrind"

Algorithms and Implementations

- W. H. Press, S. A. Teukolsky, W. T. Vetterling, B. P. Flannery, Numerical Recipes: The Art of Scientific Computing, Third Edition (2007)
ISBN-10: 0521880688 ISBN-13: 978-0521880688