



Mathematical Objects in C++: Computational Tools in A Unified Object-Oriented Approach (Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series)

Yair Shapira

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Emphasizing the connection between mathematical objects and their practical C++ implementation, this book provides a comprehensive introduction to both the theory behind the objects and the C and C++ programming. Object-oriented implementation of three-dimensional meshes facilitates understanding of their mathematical nature. Requiring no prerequisites, the text covers discrete mathematics, data structures, and computational physics, including high-order discretization of nonlinear equations. Exercises and solutions make the book suitable for classroom use and a supporting website supplies downloadable code.

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