Introduction to the Boost C Libraries Volume II - Advanced Libraries

By Daniel J. Duffy

Datasim Education Bv. Hardcover. Book Condition: New. Hardcover. 356 pages. Dimensions: 10.2in. x 7.2in. x 1.3in.This book is the follow-up of the Boost Volume I book and it has been written for software developers who use Boost C libraries to create flexible applications. We discuss approximately 20 advanced libraries that can be classified into the following major categories: Mathematics: special functions, statistical distributions, interval arithmetic and matrix algebra. Special data structures: date and time, circular buffer, UUID, dynamic bitsets, pool memory. TCP and UDP portable network programming using the software interface. Interprocess communication and shared memory programming models. Three chapters on graphs, graph algorithms and their implementation in Boost. The focus is hands-on and each library is discussed in detail and numerous working examples are given to get the reader up to speed as soon as possible. Each library is described in a step-by-step fashion and you can use the corresponding code as a basis for more advanced applications. These libraries are the ideal basis for new applications. We shall use them in Volume III of the current series when we discuss applications to engineering, science and computational finance. Chapters: The Boost C Libraries OverviewMath Toolkit: Special FunctionsMath Toolkit: Orthogonal...

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