

## **Learning OMNeT++**

Thomas Chamberlain

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#### In Detail

OMNeT++ is an extensible, modular, component-based C++ simulation library and framework, primarily for building network simulators. "Network" in a broader sense includes wired and wireless communication networks, on-chip networks, queueing networks, and so on. There are extensions for real-time simulation, network emulation, alternative programming languages (Java, C#), database integration, SystemC integration, and several other functions.

Learning OMNeT++ is an easy-to-follow, hands-on book that walks you through the steps necessary to get a Network Simulation up and running as quickly as possible. This book uses pre-existing OMNeT++ libraries to prevent you from needing to reinvent the wheel so that you can implement your simulations with ease.

OMNeT++ is a solution for creating accurate and modular Network Simulations. It will take you through all the steps necessary to allow you to create, run, and analyze your own Network Simulations.

You will model complex network simulations, and once you've covered the basics you will then learn how to make your simulations scalable and configurable so they can become truly accurate and useful.

The books's practical approach will teach you how to create and run Network Simulations using OMNeT++, as well as how to use pre-existing OMNeT++ libraries.

#### Approach

The book uses a concise and practical approach to take you through all the steps necessary to create, run, and analyze your own Network Simulations.

#### Who this book is for

This book is ideal for anyone wishing to quickly get to grips with Network Simulation whether you're an expert in networks or just a beginner. It is perfect for all network engineers and administrators who wish to emulate networks using OMNet++ as a preparation for building the actual network.



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