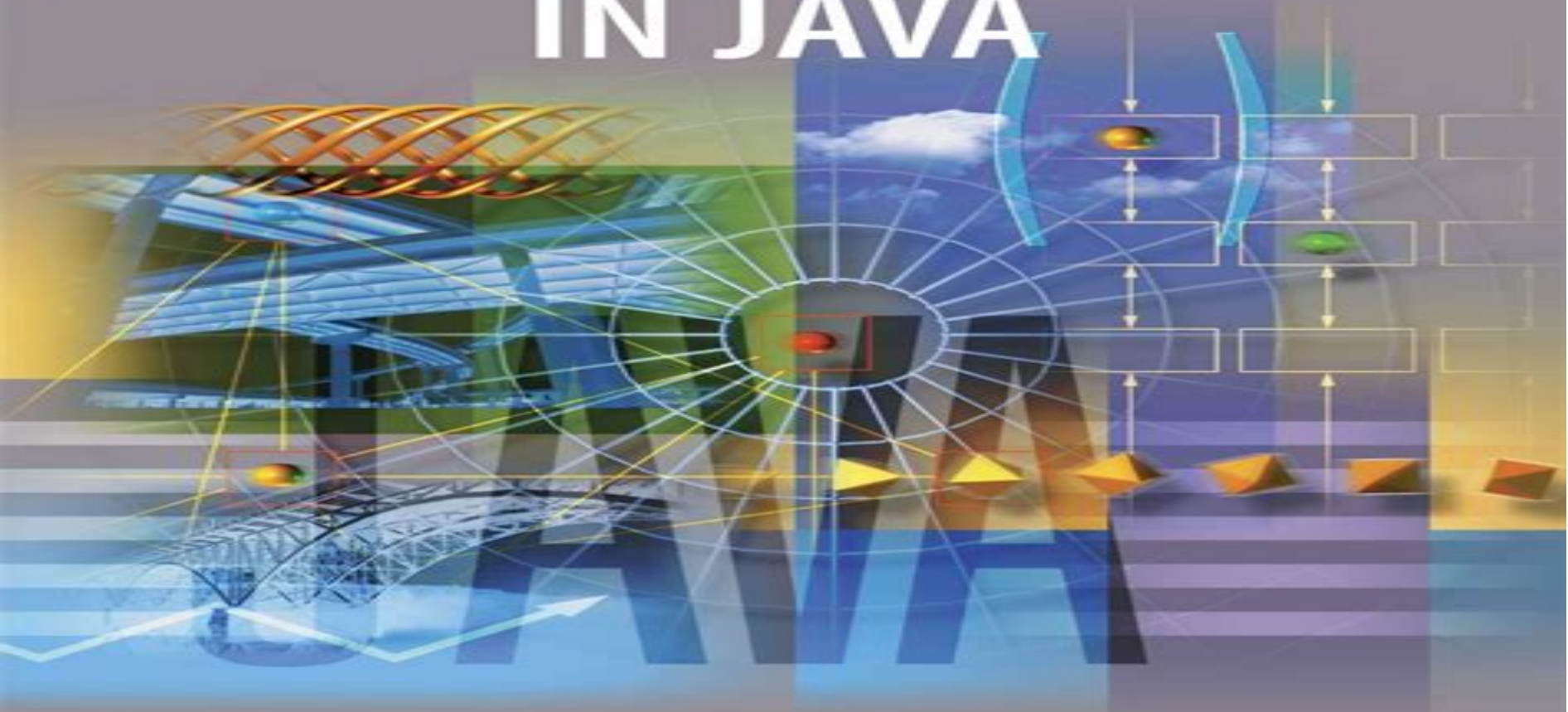


Esmond Pitt

FUNDAMENTAL NETWORKING IN JAVA



Springer

Fundamental Networking In Java Author Esmond Pitt

Oct 201

Elliote Rusty Harold



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Fundamental Networking in Java Esmond Pitt, 2006-02-28 The book provides complete coverage of fundamental IP networking in Java. It introduces the concepts behind TCP/IP and UDP and their intended use and purpose, gives complete coverage of Java networking APIs, includes an extended discussion of advanced server design so that the various design principles and tradeoffs concerned are discussed, and equips the reader with analytic queuing theory tools to evaluate design alternatives. It covers UDP multicasting and covers multi-homed hosts, leading the reader to understand the extra programming steps and design considerations required in such environments. After reading this book, the reader will have an advanced knowledge of fundamental network design and programming concepts in the Java language, enabling them to design and implement distributed applications with advanced features and to predict their performance. Special emphasis is given to the scalable I/O facilities of Java 1.4 as well as complete treatments of multi-homing and UDP, both unicast and multicast.

Advanced Java Networking Guide Esmond Pitt, 2003-07-31 *Java Network Programming and Distributed Computing* David Reilly, Michael Reilly, 2002 Java's rich comprehensive networking interfaces make it an ideal platform for building today's networked Internet-centered applications, components, and Web services. Now two Java networking experts demystify Java's complex networking API, giving developers practical insight into the key techniques of network development and providing extensive code examples that show exactly how it's done. David and Michael Reilly begin by reviewing fundamental Internet architecture and TCP/IP protocol concepts, all network programmers need to understand, as well as general Java features and techniques that are especially important in network programming, such as exception handling and input/output. Using practical examples, they show how to write clients and servers using UDP and TCP, how to build multithreaded network applications, and how to utilize HTTP and access the Web using Java. The book includes detailed coverage of server-side application development, distributed computing development with RMI and CORBA, and email enabling applications with the powerful JavaMail API. For all beginning to intermediate Java programmers, network programmers who need to learn to work with Java. [Java Network Programming](#) Elliotte Rusty Harold, 2000 A guide to developing network programs covers networking fundamentals as well as TCP and UDP sockets, multicasting, protocol content handlers, servlets, I/O parsing, JavaMail API, and Java Secure Sockets Extension. **Beginning Java Networking** Wrox Author Team, 2001-07-20 **Learning Network Programming with Java** Richard M. Reese, 2015-12-22 Harness the hidden power of Java to build network-enabled applications with lower network traffic and faster processes. About This Book Learn to deliver superior server-to-server communication through the networking channels. Gain expertise of the networking features of your own applications to support various network architectures such as client-server and peer-to-peer. Explore the issues that impact scalability, affect security, and allow applications to work in a heterogeneous environment. Who This Book Is For Learning Network Programming with Java is oriented to developers who wish to use network technologies to enhance the utility of their

applications You should have a working knowledge of Java and an interest in learning the latest in network programming techniques using Java No prior experience with network development or special software beyond the Java SDK is needed Upon completion of the book beginner and experienced developers will be able to use Java to access resources across a network and the Internet What You Will Learn Connect to other applications using sockets Use channels and buffers to enhance communication between applications Access network services and develop client server applications Explore the critical elements of peer to peer applications and current technologies available Use UDP to perform multicasting Address scalability through the use of core and advanced threading techniques Incorporate techniques into an application to make it more secure Configure and address interoperability issues to enable your applications to work in a heterogeneous environment In Detail Network aware applications are becoming more prevalent and play an ever increasing role in the world today Connecting and using an Internet based service is a frequent requirement for many applications Java provides numerous classes that have evolved over the years to meet evolving network needs These range from low level socket and IP based approaches to those encapsulated in software services This book explores how Java supports networks starting with the basics and then advancing to more complex topics An overview of each relevant network technology is presented followed by detailed examples of how to use Java to support these technologies We start with the basics of networking and then explore how Java supports the development of client server and peer to peer applications The NIO packages are examined as well as multitasking and how network applications can address practical issues such as security A discussion on networking concepts will put many network issues into perspective and let you focus on the appropriate technology for the problem at hand The examples used will provide a good starting point to develop similar capabilities for many of your network needs Style and approach Each network technology s terms and concepts are introduced first This is followed up with code examples to explain these technologies Many of the examples are supplemented with alternate Java 8 solutions when appropriate Knowledge of Java 8 is not necessary but these examples will help you better understand the power of Java 8

8 An Introduction to Network Programming with Java Jan Graba,2006 **Advanced Network Programming - Principles and Techniques** Bogdan Ciubotaru,Gabriel-Miro Muntean,2013-07-15 Answering the need for an accessible overview of the field this text reference presents a manageable introduction to both the theoretical and practical aspects of computer networks and network programming Clearly structured and easy to follow the book describes cutting edge developments in network architectures communication protocols and programming techniques and models supported by code examples for hands on practice with creating network based applications Features presents detailed coverage of network architectures gently introduces the reader to the basic ideas underpinning computer networking before gradually building up to more advanced concepts provides numerous step by step descriptions of practical examples examines a range of network programming techniques reviews network based data storage and multimedia transfer includes an extensive set

of practical code examples together with detailed comments and explanations **An Introduction to Network Programming with Java** Jan Graba, 2013-07-31 *Fundamentals of Java Programming Companion Guide* Cisco Systems, Inc, Cisco Networking Academy Program, 2004 Maps directly to the Cisco Networking Academy Program's Web based course Prepares students for the Sun Certified Programmer for Java 2 Platform exam Two leading IT companies Cisco Systems and Sun Microsystems partnered to establish a Java Programming course for Networking Academy students
 Advanced Java Networking Bill Rieken, Prashant Sridharan, Laraine Peterson, 1997-03-01

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