

Read Online C
Network

Programming,
C Network P
Volume I:
rogramming,
Complexity With
Volume I:
ACE And
Mastering
Patterns:
Complexity
Complexity With
With ACE
ACE And
And
Patterns:
Patterns:
Complexity Using
ACE And Patterns

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Vol 1 (C In Depth)

Read Online C

Network

**Mastering
Complexity
With ACE
And
Patterns:
Resolving
Complexity
Using ACE**

ACE And
Page 2/245

Patterns:

Read Online C Network

Programming,
Volume I:
Mastering
Complexity With
ACE And
handlers,
servlets, I/O,
parsing, Java
Mail API, and
Java Secure
Sockets
Extension.
An advanced,
Page 4/245

Vol 1 (C In Depth)

Read Online C Network

*Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Patterns:*
*code-intensive
guide to
programming
design for
local area
networking.*

*Includes ready-
to-use
applications
with source
codes and
customizing
tips.*

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Vol 1 (C In Depth)

Read Online C Network

Programming.
Volume I:
"Linux Socket
Programming"

Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And
Patterns
provides
thorough,
authoritative
coverage of the
sockets API,
the defacto
standard for
all network
programming. It
gives real-
world examples

Read Online C Network

Programming,
that

Volume I:
demonstrate

Mastering
effective

Complexity With
techniques to

ACE And
make code more

Patterns:
robust and

Mastering
versatile. This

Complexity With
book contains

ACE And
the only

Patterns:
complete

Resolving
reference for

Complexity Using
all calls and

ACE And Patterns
functions

Vol 1 (C In Depth)

Read Online C Network

Programming,

needed to

Volume I:
program

Mastering
sockets.

This book Complexity With

ACE And
analyzes the

Patterns:
application of

Mastering
the legal

Complexity With
principle of no

ACE And
n-

Patterns:
discrimination

Resolving
in the context

Complexity Using
of energy

ACE And Patterns
network

ACE And Patterns

Vol 1 (C In Depth)

Read Online C Network

Programming,
operation.

Volume I:
Mastering
1990s, the duty
not to

discriminate

has applied to

energy network

operators, in

order to

achieve a

liberalized

European energy
market in which

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Vol 1 (C In Depth)

Read Online C Network

Programming,

*European
Volume I:
Mastering
Complexity With
ACE And
Patterns:*

*consumers have
a free and real
choice of
energy
supplier. The
book provides
guidance to
those working
in the context
of the non-
discrimination
obligation,*

Page 10/245

Vol 1 (C In Depth)

Read Online C Network

Programming,
such as energy
Volume I:
network

Mastering
operators,
Complexity With
regulatory
ACE And
authorities,

national:
Patterns:
Mastering and

Complexity With
other energy
ACE And
market players,
Patterns:
as well as

Resolving
those studying
Complexity Using
the rules for
ACE And Patterns
(academic)

Read Online C Network

Programming,
research

Volume I:
purposes. The
Mastering
book's

conclusions With

ACE And
serve as a tool

Patterns:
for critical

Mastering
consideration

Complexity With

ACE And
suggestions for

Patterns:
improvements to

the legal

Resolving
framework and

Complexity Using
its application

ACE And
Patterns

Vol 1 (C In Depth)

Read Online C Network

Programming,
on a European,
Volume I:
as well as a
Mastering,
national,
level. Several
ACE And
questions are
answered,
including why
energy network
operators have
a non-
discrimination
obligation in
the context of
ACE And Patterns

Read Online C Network

Programming.
Volume I:
Mastering
Complexity With
ACE And
Patterns: the
discrimination
problem since
the early
1990s, and when
different
treatment of
energy network
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Vol 1 (C In Depth)

Read Online C Network

Programming
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE and Patterns

*users amounts
to 'forbidden'
discrimination.
The book's
conclusions are
underpinned by
comparisons
with
competition
law, public
procurement
law, and teleco
mmunications*

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Vol 1 (C In Depth)

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*law, as well as
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
States
Complexity With
currently
interpret and
apply the non-
discrimination
obligation.*

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Programming.
(Series: Energy
Volume I:
& Law - Vol.
15)

Boost.Asio C++
ACE And
Network

Programming
UNIX Network

Programming:
The sockets
networking API

Linux Socket
Programming

Sockets,
ACE And Patterns

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Vol 1 (C In Depth)

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Programming,
Shellcode,
Volume I:
Porting, and
Mastering
Coding: Reverse
Engineering With
ACE And
Exploits and
Patterns
Coding for
Security
Professionals With
IPv6 Network
Programming
Network
Programming in
Complexity Using
.NET

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As networks,
devices, and
systems continue to
evolve, software
engineers face the
unique challenge of
creating reliable
distributed
applications within
frequently
changing
environments. C++

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Network

Programming,
Volume 1:

Mastering
Volume 1, provides
practical solutions
for developing and
optimizing complex
distributed systems
using the

ADAPTIVE

Communication

Resolving
Environment

(ACE), a

Page 20/245

ACE And Patterns
Vol 1 (C In Depth)

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

revolutionary open-
source framework
that runs on dozens
of hardware
platforms and
operating systems.

This book guides
software
professionals
through the traps
and pitfalls of
developing

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Programming
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

efficient, portable,
and flexible
networked
applications. It
explores the
inherent design
complexities of
concurrent
networked
applications and
the tradeoffs that
must be considered

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Programming,
Volume I:
Mastering
Network
Complexity With
Programming
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

when working to master them. C++ Network Programming begins with an overview of the issues and tools involved in writing distributed concurrent applications. The book then provides

Read Online C Network

the essential design dimensions, patterns, and principles needed to develop flexible and efficient concurrent networked applications. The book's expert author team shows you how to enhance

Read Online C Network

design skills while applying C++ and patterns effectively to develop object-oriented networked applications.

Readers will find coverage of: C++ network

programming, including an overview and

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

strategies for
addressing
common
development
challenges The
ACE Toolkit
Connection
protocols, message
exchange, and
message-passing
versus shared
memory

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

Implementation
methods for
reusable networked
application services
Concurrency in
object-oriented
network
programming
Design principles
and patterns for
ACE wrapper
facades With this

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Programming,
book, C++
Volume I:
developers have at
their disposal the
most complete
toolkit available for
developing
successful,
multiplatform,
concurrent
networked
applications with
ease and efficiency.

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Programming,
Volume 1:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

To build today's highly distributed, networked applications and services, you need deep mastery of sockets and other key networking APIs. One book delivers comprehensive, start-to-finish

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Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

guidance for
building robust,
high-performance
networked systems
in any

environment:
UNIX Network
Programming,
Volume 1, Third
Edition.

Hands-On Network
Programming with

Read Online C Network

Learn socket programming in C and write secure and optimized network codePackt Publishing Ltd
Software --
Operating Systems.
UNIX Network Programming
Network Programming with

Read Online C
Network

Programming,
Go

Volume I:
Network

Mastering
Programming with
Complexity With
Windows Sockets

ACE And
Beej's Guide to
Patterns:
Network

Mastering
Programming
Complexity With
Java Network

ACE And
Patterns:
Programming
Twisted Network

Resolving
Programming
Complexity Using
Essentials

Page 32/245

ACE And Patterns
Vol 1 (C In Depth)

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**This book
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns**

**contains
everything you
need to make
your
application
program
support IPv6.
IPv6 socket
APIs (RFC2553)
are fully
described with**

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

real-world
examples. It
covers
security, a
great concern
these days. To
secure the
Internet infra
structure,
every
developer has
to take a

Read Online C Network

Programming,
security
Volume I:
stance - to
Mastering
audit every
Complexity With
line of code,
ACE And
to use proper
Patterns:
API and write
Mastering
correct and
Complexity With
secure code as
ACE And
much as
Patterns:
possible. To
Resolving
achieve this
Complexity Using
goal, the
ACE and Patterns

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Programming,
examples
Volume I:
presented in
Mastering
this book are
Complexity With
implemented
ACE And
with a
Patterns:
security
Mastering
stance. Also,
Complexity With
the book leads
ACE And
you to write
Patterns:
secure
Resolving
programs. For
Complexity Using
instance, the

Read Online C Network

Programming,
book

Volume I:

recommends

Mastering

against the

Complexity With

use of some of

ACE And

the IPv6

Patterns:

standard APIs

Mastering

Complexity With

unfortunately,

ACE And

there are some

Patterns:

IPv6 APIs that

Resolving

are inherently

Complexity Using

ACE And Patterns

insecure, so

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

the book tries
to avoid (and
discourage)
the use of
such APIs.

Another key
issue is
portability.

The examples
in the book
should be
applicable to

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Programming
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

any of UNIX
based
operating
systems, MacOS
X, and Windows
XP. * Covers
the new
protocol just
adopted by the
Dept of
Defense for
future systems

Read Online C Network

*** Deals with
security
concerns,
including spam
and email, by
presenting the
best
programming
standards *
Fully
describes IPv6
socket APIs**

Read Online C Network

Programming,
Volume I:
(RFC2553)

using real-
world examples
* Allows for
portability to
UNIX-based
operating
systems, MacOS
X, and Windows
XP

A text
focusing on

Page 41/245

Vol 1 (C In Depth)

Read Online C
Network

Programming,
Volume I:
the methods
and

Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

alternatives
for designed
TCP/IP-based
client/server
systems and
advanced

techniques for
specialized
applications
with Perl. A

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Vol 1 (C In Depth)

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Network

Programming,
guide

Volume I:
examining a

Mastering
collection of
Complexity With

ACE And
the best third
Patterns:

Mastering
party modules
Patterns:

Mastering
in the
Complexity With

ACE And
Comprehensive
Patterns:

ACE And
Perl Archive
Patterns:

ACE And
Network.
Patterns:

ACE And
Topics
Resolving

Complexity Using
covered: Perl
ACE And Patterns

ACE And Patterns
function

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

libraries and
techniques
that allow
programs to
interact with
resources over
a network. IO:
Socket library
; Net: FTP
library --
Telnet library
-- SMTP

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Programming
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

library ; Chat
problems ;
Internet
Message Access
Protocol
(IMAP) issues
; Markup-
language
parsing ;
Internet
Protocol (IP)
broadcasting

Read Online C
Network
Programming,
and
Volume I:
multicasting.
Mastering
TCP/IP
Complexity With
Illustrated,
ACE And
Volume 1,
Patterns:
Second
Mastering
Edition, is a
Complexity With
detailed and
ACE And
visual guide
Patterns:
to today's
Resolving
TCP/IP
Complexity Using
protocol

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

**suite. Fully
updated for
the newest
innovations,
it
demonstrates
each protocol
in action
through
realistic
examples from
modern Linux,**

Read Online C Network

Programming,
Volume I:
Windows, and
Mac OS

Mastering
environments.

Complexity With
There's no
ACE And
better way to

Patterns:
discover why

Mastering
TCP/IP works

Complexity With
as it does,

ACE And
how it reacts

Patterns:
to common

Resolving
conditions,

Complexity Using
and how to

ACE And Patterns
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Vol 1 (C In Depth)

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Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Building on
the late W.
Richard
Stevens' classic first
edition,
author Kevin
R. Fall adds

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Programming,
Volume I:
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Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns
his cutting-
edge
experience as
a leader in
TCP/IP
protocol
research,
updating the
book to fully
reflect the
latest
protocols and

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Programming,
best

Volume I;
practices.

Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns
Vol 1 (C In Depth)

**This volume
focuses on the
underlying**

sockets class,

one of the

basis for

learning about

networks in

any

programming

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Programming
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

language. By
learning to
write simple
client and
server
programs that
use TCP/IP,
readers can
then realize
network
routing,
framing, error

Read Online C
Network

Programming,
Volume I:
detection and
correction,
Mastering
and
Complexity With
performance.

SRv6 Network
Patterns:
Programming
Mastering
Using Internet
Complexity With
Sockets

ACE And
An
Patterns:
Introduction
Resolving
to

Complexity Using
Professional C

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ACE And Patterns
Vol 1 (C In Depth)

Read Online C
Network

Programming

Volume I:
C # NETWORK PR

Mastering
OGRAMMING (CD1

?)
(?)

TCP/IP

Patterns:
Illustrated

Mastering
Hands-On

Complexity With
Network

ACE And
Programming

Patterns:
with C# and

Resolving
.NET Core

Complexity Using
Demonstrates

ACE And Patterns
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Vol 1 (C In Depth)

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Network

Programming,
socket
programming
fundamentals,
including
writing servers,
creating secure
applications,
address
conversion
functions,
socket types,
and TCP/IP
protocols and
options

Page 55/245

Vol 1 (C In Depth)

Read Online C
Network

**Programming in
Volume 1:
TCP/IP can seem
deceptively
simple.**

**Nonetheless,
many network
programmers
recognize that
their
applications
could be much
more robust.**

**Effective TCP/IP
Programming is**

Page 56/245

Vol 1 (C In Depth)

Read Online C Network

**Programming,
Volume I:
boost**

**programmers to a
higher level of
competence by
focusing on the
protocol suite's
more subtle
features and
techniques. It
gives you the
know-how you
need to produce
highly effective**

Read Online C
Network

TCP/IP programs.
In forty-four
concise, self-
contained With
lessons, this
book offers
experience-based
tips, practices,
and rules of
thumb for
learning high-
performance
TCP/IP
programming

Page 58/245

Vol 1 (C In Depth)

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Network

techniques.

**Moreover, it
shows you how to**

avoid many of

TCP/IP's most

common trouble

spots. Effective

TCP/IP

Programming

offers valuable

advice on such

topics as:

Exploring IP

addressing,

Page 59/245

Vol 1 (C In Depth)

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Network

*subnets, and
CIDR Preferring
the sockets
interface over
XTI/TLI Using
two TCP
connections
Making your
applications
event-driven
Using one large
write instead of
multiple small
writes Avoiding*

Page 60/245

Vol 1 (C In Depth)

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Network

Programming,
Volume 1:
Understanding
what TCP
reliability
really means
Recognizing the
effects of
buffer sizes
Using tcpdump,
traceroute,
netstat, and
ping effectively
Numerous
examples

Vol 1 (C In Depth)

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demonstrate
essential ideas
and concepts.
Skeleton code
and a library of
common functions
allow you to
write
applications
without having
to worry about
routine chores.
Through
individual tips

Read Online C
Network

Programming,
and

explanations,
you will acquire

an overall With
understanding of

TCP/IP's inner
workings and the

practical
knowledge needed

to put it to
work. Using

Effective TCP/IP
Programming,

you'll speed

Page 63/245

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Network

*through the
learning process
and quickly
achieve the
programming
capabilities of
a seasoned pro.
A comprehensive
guide to
programming with
network sockets,
implementing
Internet
protocols,*

Page 64/245

Vol 1 (C In Depth)

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Network

*designing IoT
Volume I:
devices, and
much more with C
Key Features
Complexity With
Leverage your C
or C++
programming
skills to build
powerful network
applications Get
to grips with a
variety of
network
protocols that*

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Vol 1 (C In Depth)

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*allow you to
load web pages,
send emails, and
do much more*
**Write portable
network code for
operating
systems such as
Windows, Linux,
and macOS** **Book
Description**
**Network
programming, a
challenging**

Read Online C
Network

*topic in C, is
made easy to
understand with
a careful
exposition of
socket
programming
APIs. This book
gets you started
with modern
network:
programming in C
and the right
use of relevant*

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Vol 1 (C In Depth)

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**operating system
APIs. This book
covers core
concepts, such
as hostname
resolution with
DNS, that are
crucial to the
functioning of
the modern web.
You'll delve
into the
fundamental
network**

Page 68/245

Read Online C
Network

**protocols, TCP
and UDP.**

**Essential
techniques for
networking
paradigms such
as client-server
and peer-to-peer
models are
explained with
the help of
practical
examples. You'll
also study HTTP**

Page 69/245

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and HTTPS (the protocols responsible for web pages) from both the client and server perspective. To keep up with current trends, you'll apply the concepts covered in this book to gain insights into web

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***programming for
IoT. You'll even
get to grips
with network
monitoring and
implementing
security best
practices. By
the end of this
book, you'll
have experience
of working with
client-server
applications,***

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Vol 1 (C In Depth)

Read Online C Network

*and be able to
implement new
network programs
in C. The code
in this book is
compatible with
the older C99
version as well
as the latest
C18 and C++17
standards.*

*Special
consideration is
given to writing*

Read Online C
Network

Programming,
robust,
Volume 1:
reliable, and
secure code that
is portable With
Complexity With
ACE And
across operating
Patterns:
systems,
Mastering
including
Complexity With
ACE And
Winsock sockets
Patterns:
for Windows and
Mastering
POSIX sockets
Complexity With
ACE And
for Linux and
Patterns:
macOS. What you
Resolving
will learn
Complexity Using
Uncover cross-

Page 73/245

Vol 1 (C In Depth)

Read Online C
Network

*platform socket
programming APIs*

Implement

*techniques for
supporting IPv4
and IPv6*

*Understand how
TCP and UDP*

*connections work
over IP Discover*

how hostname

*resolution and
DNS work*

Interface with

Page 74/245

Vol 1 (C In Depth)

Read Online C
Network

**web APIs using
HTTP and HTTPS
Acquire hands-on
experience with
Simple Mail
Transfer
Protocol (SMTP)
Apply network
programming to
the Internet of
Things (IoT) Who
this book is for
If you're a
developer or a**

Page 75/245

Vol 1 (C In Depth)

Read Online C
Network
Programming,
system
administrator
who wants to
enter the world
of network
programming,
this book is for
you. Basic
knowledge of C
programming is
assumed.

Back in the mid
90s, Beej got
tired of all his

Page 76/245

Vol 1 (C In Depth)

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*friends asking
him how to do
this stuff with
networking With
programming in
C, so he put pen
to paper on the
early World Wide
Web and wrote
down everything
he knew: just to
get them off his
back. Since
then, the Guide*

Read Online C Network

has expanded significantly, with plenty of examples, and covers IPv6.

Inside you'll find such

diverse topics as: Sockets

programming in the C

programming language,

client/server,

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**Programming
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns**

**IPv4 and IPv6,
data encoding,
lots of manual
pages rewritten
in a friendlier
format with
examples, and
goats! Actually
no goats, but
goats will be
with you in
spirit! Beej's
Guide to Network
Programming is**

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*also freely
available for
PDF download
online in US
Letter and A4
sizes, in its
entirety, and
always will
be--Google for
it. The bound
version here is
provided as a
service to those
who still prefer*

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*the analog,
printed word.*

*(And to those
who want to kick
back a few bucks
to the author.)*

*The Pocket Guide
to TCP/IP
Sockets*

*The Definitive
Guide to Linux
Network*

*Programming
Build robust*

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Programming,
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Perl
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ACE And
Patterns:
Taking you to
the limit in
Concurrency,
OOP, and the
most advanced

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capabilities, of Volume I:

The networking capabilities of the Java platform have been extended considerably since the first edition of the book. This new edition covers version 1.5-1.7, the most current iterations, as well as making the

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following
improvements: The
API (application
programming
interface)
reference sections
in each chapter,
which describe the
relevant parts of
each class, have
been replaced with
(i) a summary
section that lists
the classes and

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methods used in the code, and (ii) a "gotchas" section that mentions nonobvious or poorly-documented aspects of the objects. In addition, the book covers several new classes and capabilities introduced in the last few revisions

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Complexity Using
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of the Java
platform. New
abstractions to be
covered include
NetworkInterface,
InterfaceAddress,
Inet4/6Address, So
cketAddress/InetSo
cketAddress,
Executor, and
others; extended
access to low-level
network
information;

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support for IPv6;
more complete
access to socket
options; and
scalable I/O. The
example code is
also modified to
take advantage of
new language
features such as
annotations,
enumerations, as
well as generics
and implicit

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iterators where appropriate. Most Internet applications use sockets to implement network communication protocols. This book's focused, tutorial-based approach helps the reader master the tasks and techniques

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essential to
virtually all client-
server projects
using sockets in
Java. Chapter 1
provides a general
overview of
networking
concepts to allow
readers to
synchronize the
concepts with
terminology.

Chapter 2

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introduces the
mechanics of
simple clients and
servers. Chapter 3
covers basic
message
construction and
parsing. Chapter 4
then deals with
techniques used to
build more robust
clients and servers.
Chapter 5 (NEW)
introduces the

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scalable interface facilities which were introduced in Java 1.5, including the buffer and channel abstractions.

Chapter 6 discusses the relationship between the programming constructs and the underlying protocol

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implementations in
more detail.

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concepts are
introduced through
simple program
examples
accompanied by
line-by-line code
commentary that
describes the
purpose of every
part of the
program. No other

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resource presents
so concisely or so
effectively the
material necessary
to get up and
running with Java
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programming.
Focused, tutorial-
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key sockets
programming
techniques allows
reader to quickly

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on Java
applications.

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date coverage of
the most recent
platform (1.7) for
Java applications in
networking
technology.

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sockets to
implement network

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based coverage,
helps you master
the tasks and
techniques
essential to
virtually all client-
server projects
using sockets in

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Java. Later chapters teach you to implement more specialized functionality; incisive discussions of programming constructs and protocol implementations equip you with a deeper understanding that is invaluable for

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meeting future
challenges. No
other resource
presents so
concisely or so
effectively the
exact material you
need to get up and
running with Java
sockets

programming right
away. For those
who program using
the C language, be

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sure to check out
this book's
companion, TCP/IP
Sockets in C: With
Practical Guide for
Programmers.

Concise, no-
nonsense
explanations of
issues often
troublesome for
students, including
message
construction and

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programming, underlying mechanisms and Java I/O Comprehensive example-based coverage of the most important TCP/IP techniques- including iterative and threaded servers, timeouts and asynchronous message processing Includes

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a detailed, easy-to-use reference to the relevant JAVA class libraries Provides a guide to common errors and a reference offering detailed documentation of the sockets interface Perfect for a practitioner who may even want just to "look

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Volume I:
into" this
technology.

Provides tutorial-
based instruction in
key sockets
programming
techniques,
focusing
exclusively on Jva
and complemented
by example code.
Covers challenging
sockets
programming

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issues: message construction and parsing, underlying TCP/IP protocol mechanisms, Java I/O, iterate and threaded servers, and timeouts.

Includes references to the relevant Java class libraries that often go beyond the "official" Java documentation in

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clarity and
explanation.

Dive into key topics
in network
architecture and
Go, such as data
serialization,
application level
protocols,
character sets and
encodings. This
book covers
network
architecture and

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gives an overview of the Go language as a primer, covering the latest Go release. Beyond the fundamentals, Network Programming with Go covers key networking and security issues such as HTTP and HTTPS, templates, remote procedure

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call (RPC), web sockets including HTML5 web sockets, and more. Additionally, author Jan Newmarch guides you in building and connecting to a complete web server based on Go. This book can serve as both as an essential learning

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Go Carry out data
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application-level
protocols Manage
character sets and
encodings Deal
with HTTP(S) Build
a complete Go-
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Complexity Using
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based web server
Work with RPC,
web sockets, and
more Who This
Book Is For
Experienced Go
programmers and
other programmers
with some
experience with
the Go language.

The book is
logically divided
into 5 main

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ACE And
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Resolving
Complexity Using
ACE And Patterns

categories with
each category
representing a
major skill set
required by most
security
professionals: 1.
Coding - The ability
to program and
script is quickly
becoming a
mainstream
requirement for
just about

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everyone in the security industry. This section covers the basics in coding complemented with a slue of programming tips and tricks in C/C++, Java, Perl and NASL. 2.

Sockets - The technology that allows programs

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Mastering
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ACE And
Patterns:
Resolving

and scripts to
communicate over
a network is
sockets. Even
though the theory
remains the same -
communication
over TCP and UDP,
sockets are
implemented
differently in nearly
ever language. 3.

Shellcode -
Shellcode,

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commonly defined
as bytecode
converted from
Assembly, is
utilized to execute
commands on
remote systems via
direct memory
access. 4. Porting -
Due to the
differences
between operating
platforms and
language

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implementations
on those platforms,
it is a common
practice to modify
an original body of
code to work on a
different platforms.
This technique is
known as porting
and is incredible
useful in the real
world

environments since
it allows you to not

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Programming,
Volume I: Coding
Tools – The
culmination of the
previous four
sections, coding
tools brings all of
the techniques that
you have learned
to the forefront.

With the
background
technologies and
techniques you will

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now be able to
code quick utilities
that will not only
make you more
productive, they
will arm you with
an extremely
valuable skill that
will remain with
you as long as you
make the proper
time and effort
dedications.

*Contains never

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before seen
chapters on writing
and automating
exploits on
windows systems
with all-new
exploits. *Perform
zero-day exploit
forensics by
reverse
engineering
malicious code.

*Provides working
code and scripts in

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all of the most
common

programming

languages for

readers to use

TODAY to defend
their networks.

TCP/IP Illustrated,
Volume 1

Effective C

Essential Skills for

Using and Securing

Networks

Network

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Programming
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With C# and Visual
Basic.NET

Complexity With

The purpose of this book is to provide tools to design and implement network-orientated applications in .NET. It is also a guide for software designers to choose

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*the best and most
efficient way to
implement mission
critical solutions.*

*The book addresses
real-world issues
facing professional
developers, such as
using third-party
components as
opposed in-house
development. It
differentiates itself*

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*from existing .NET
Volume I:
publications
because it is aimed
at experienced
professionals and
concentrates on
practical, ready-to-
use information. The
book is written in
two languages C#
and VB.NET, and
covers never-before
published*

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Programming,
information on
Volume I:
Telephony in .NET
Mastering
and packet-level
networking. This is
the second book in
the Digital Press
Software
Development
Series. Coverage of
lower level protocols
allows
implementation of
performance-centric
ACE And
Patterns:
Resolving
Complexity Using
ACE And
Patterns

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*Programming,
applications*

*Volume I:
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feasibility of*

developing With

ACE And

*Patterns:
in-house rather than*

outsourcing Written

in VB.NET and C#

to assist readers

working in either

language Coverage

of Email, FTP and

the WWW allows

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*implementation of
applications in all
three areas*

*“For an engineer
determined to refine
and secure Internet
operation or to
explore alternative
solutions to
persistent problems,
the insights
provided by this
book will be*

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invaluable.” —Vint
Cerf, Internet
pioneer *TCP/IP*
Illustrated, Volume
1, Second Edition, is
a detailed and visual
guide to today's
TCP/IP protocol
suite. Fully updated
for the newest
innovations, it
demonstrates each
protocol in action

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*through realistic
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Mastering
modern Linux,
Complexity With
Windows, and Mac
ACE And
OS environments.
Patterns:
There's no better
Mastering
way to discover why
Complexity With
TCP/IP works as it
ACE And
does, how it reacts
Patterns:
to common
Resolving
conditions, and how
Complexity Using
to apply it in your
ACE And
own applications*

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and networks.

Building on the late

W. Richard

Stevens' classic

first edition, author

Kevin R. Fall adds

his cutting-edge

experience as a

leader in TCP/IP

protocol research,

updating the book to

fully reflect the latest

protocols and best

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practices. He first introduces TCP/IP's core goals and architectural concepts, showing how they can robustly connect diverse networks and support multiple services running concurrently. Next, he carefully explains Internet addressing

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*in both IPv4 and
IPv6 networks.*

*Then, he walks
through TCP/IP's
structure and
function from the
bottom up: from link
layer protocols—such
as Ethernet and Wi-
Fi—through network,
transport, and
application layers.*

Fall thoroughly

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introduces ARP, DHCP, NAT, firewalls, ICMPv4/ICMPv6, broadcasting, multicasting, UDP, DNS, and much more. He offers extensive coverage of reliable transport and TCP, including connection management,

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Programming,
timeout,
Volume I:
retransmission,
Mastering
interactive data flow,
Complexity With
and congestion
ACE And
control. Finally, he
Patterns:
introduces the
Resolving
basics of security
Complexity Using
and cryptography,
ACE And
and illuminates the
Patterns:
crucial modern
Resolving
protocols for
Complexity Using
protecting security
ACE And
and privacy,

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ACE And
Patterns:
Resolving
Complexity Using
ACE And
Patterns*

*including EAP,
IPsec, TLS,
DNSSEC, and
DKIM. Whatever
your TCP/IP
experience, this
book will help you
gain a deeper, more
intuitive
understanding of the
entire protocol suite
so you can build
better applications*

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*and run more
reliable, efficient
networks.*

*Do you need to
develop flexible
software that can be
customized quickly?*

*Do you need to add
the power and
efficiency of*

*frameworks to your
software? The
ADAPTIVE*

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Communication
Environment (ACE)

Mastering
Complexity With
ACE And
Patterns:
is an open-source
toolkit for building
high-performance
networked

Resolving
Complexity With
ACE And
Patterns:
applications and
next-generation
middleware. ACE's
power and flexibility
arise from object-
oriented

Complexity Using
ACE And
Patterns:
frameworks, used to

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*achieve the
systematic reuse of
networked
application software.
ACE frameworks
handle common
networking
programming tasks
and can be
customized using
C++ language
features to produce
complete distributed*

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*applications. C++
Volume 1:
Network*

*Programming,
Volume 2, focuses
on ACE*

*frameworks,
providing thorough
coverage of the
concepts, patterns,
and usage rules that
form their structure.*

*This book is a
practical guide to*

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designing object-oriented frameworks and shows developers how to apply frameworks to concurrent networked applications. C++ Networking, Volume 1, introduced ACE and the wrapper facades, which are basic network

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Programming,
computing

Volume I:
ingredients. Volume

Mastering
2 explains how

Complexity With
frameworks build on

ACE And
wrapper facades to

Patterns
provide higher-level

Mastering
communication

Complexity With
services. Written by

ACE And
two experts in the

Patterns:
ACE community,

Resolving
this book contains:

Complexity Using
An overview of ACE
frameworks Design

ACE Patterns
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*dimensions for
networked services*

*Descriptions of the
key capabilities of
the most important*

ACE frameworks

Numerous C++

*code examples that
demonstrate how to*

use ACE

frameworks C++

Network

Programming,

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Volume 2, teaches how to use frameworks to write networked applications quickly, reducing development effort and overhead. It will be an invaluable asset to any C++ developer working on networked applications.

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*The Pocket Guide to
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Mastering
Complexity With
ACE And
Review: need to
develop
sophisticated and
powerful networked-
based programs
using sockets.*

*Written by two
experienced*

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*programming,
networking,
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instructors, this
Mastering
book provides a
series of examples
that demonstrate*

*basic sockets
techniques for
clients and servers.*

*Using plenty of real-
world examples, this
book is a complete
beginner's guide to
socket programming*

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*and a springboard
to more advanced
networking topics,
including multimedia
protocols.*

*Add powerful neural
network capabilities
to your C#
enterprise
applications*

*Practical Design
Patterns for Network
and Systems*

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Mastering
Programmer's
Guide

Linux Socket

Programming by
Example

Learn socket
programming in C

and write secure
and optimized

network code

The Protocols

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**A detailed
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the C**

**programming
language for
experienced
programmers.**

**The world runs
on code written
in the C**

**programming
language, yet
most schools**

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gap and brings
C into the
modern
era--covering
the modern C17
Standard as
well as
potential C2x**

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instant classic,
you'll soon be
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professional,
portable, and
secure C
programs to
power robust
systems and
solve real-world
problems.**

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Programming,
**Robert C.
Seacord**

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**introduces C
and the C
Standard**

**Library: while
addressing best
practices, With
common errors,
and open
debates in the
C community.
Developed**

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Patterns:
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ACE and
Patterns
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Mastering
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Complexity With
ACE And
Experts,
Effective C will
teach you how
to debug, test,
and analyze C
programs.

You'll benefit
from Seacord's
concise

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**explanations of
C language
constructs and
behaviors, and
from his 40
years of coding
experience.**

**You'll learn: •
How to identify
and handle
undefined
behavior in a C
program • The**

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floating-point
values • How
dynamic
memory
allocation
works and how
to use
nonstandard
functions • How
to use**

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types • How to
perform I/O
with terminals
and filesystems
using C
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streams and
POSIX file
descriptors •
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understand the**

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translation
phases and the
role of the
preprocessor •**

**How to test,
debug, and
analyze C
programs**

**Effective C will
teach you how
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professional,**

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portable C code
that will stand
the test of time
and help
strengthen the
foundation of
the computing
world.**

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level
networking in
Python**

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—essential for
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Complexity With
application
ACE And *
protocol. *

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examples
demonstrate
concepts in
action -- and
can be used as
starting points
for new

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projects. *

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demystified. ***

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explains
multitasking
network
servers using
several models,
including
forking,**

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Resolving
Complexity Using
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**threading, and
non-blocking
sockets.***

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extensive**

Patterns:
Resolving
Complexity Using
ACE And
**coverage of
Web and E-
mail. Describes
Python's
database APIs.**

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Patterns:
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ACE And
**Writing high-
quality
networked**

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**applications is
difficult--it's
expensive,
complicated,
and error-
prone. This
book picks up
where volume
one left off, and
guides C++
programmers
through using
the Adaptive**

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**Communication
Environment
(ACE), the most
complete
toolkit available
for networked
programming.
Written for
developers who
want build
applications
using Twisted,
this book**

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oriented look at
this open
source, Python-
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technology.**

**C++ Network
Programming,
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Improve Your
Network
Programs**

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Programming.
TCP/IP Sockets
Volume I:
in C

Mastering
Hands-On
Network With

ACE And
Programming
with C:

Advanced
Programming in
the UNIX

Environment
Ushering in a
New Era of IP
Networks

ACE And
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** Clear and abundant examples, using real-world code, written by three experienced developers who write networking code for a living. **

Describes how to build clients and servers, explains how TCP, UDP, and

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Well suited for Windows developer looking to expand to Linux, or for the proficient Linux developer looking to incorporate client-

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Programming,
server

programming into
their application.

A comprehensive
guide to

programming with
network sockets,

implementing
Internet protocols,

designing IoT
devices, and much

more with C Key
Features Leverage

Page 162/245

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*your C or C++
programming skills
to build powerful
network
applications Get to
grips with a variety
of network
protocols that allow
you to load web
pages, send emails,
and do much more
Write portable
network code for*

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*operating systems
such as Windows,
Linux, and macOS*
Book Description
Network

*programming, a
challenging topic in
C, is made easy to
understand with a
careful exposition
of socket
programming APIs.
This book gets you*

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*Programming,
Volume I:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And
Patterns*

*started with
modern network
programming in C
and the right use of
relevant operating
system APIs. This
book covers core
concepts, such as
hostname
resolution with
DNS, that are
crucial to the
functioning of the*

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*modern web. You'll
delve into the
fundamental
network protocols,
TCP and UDP.*

*Essential:
techniques for
networking
paradigms such as
client-server and
peer-to-peer
models are
explained with the*

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help of practical examples. You'll also study HTTP and HTTPS (the protocols responsible for web pages) from both the client and server perspective. To keep up with current trends, you'll apply the concepts covered in

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this book to gain insights into web programming for IoT. You'll even get to grips with network monitoring and implementing security best practices. By the end of this book, you'll have experience of working with client-

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*Programming
Volume 1:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns*

*server applications,
and be able to
implement new
network programs
in C. The code in
this book is
compatible with the
older C99 version
as well as the latest
C18 and C++17
standards. Special
consideration is
given to writing*

Page 169/245

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*robust, reliable, and
secure code that is
portable across
operating systems,
including Winsock
sockets for*

*Windows and POSIX
sockets for Linux
and macOS. What
you will learn*

*Uncover cross-
platform socket
programming APIs*

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*Programming,
Volume I:
Implement techniques for
Mastering supporting IPv4 and
Complexity With IPv6 Understand
ACE And how TCP and UDP
Patterns connections work
Mastering over IP Discover
Complexity With how hostname
ACE And resolution and DNS
Patterns work Interface with
Resolving web APIs using
Complexity Using HTTP and HTTPS
ACE And Acquire hands-on
Patterns*

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experience with

Simple Mail

Transfer Protocol

(SMTP) Apply

network

programming to the

Internet of Things

(IoT) Who this book

is for If you're a

developer or a

system

administrator who

wants to enter the

Page 172/245

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*world of network
programming, this
book is for you.*

*Basic knowledge of
C programming is
assumed:*

*SRv6 Network
Programming,
beginning with the
challenges for
Internet Protocol
version 6 (IPv6)
network*

Page 173/245

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Programming,
development,
Volume I:
describes the
Mastering
background,
Complexity With
roadmap design,
ACE And
and implementation
of Segment Routing
Basics
over IPv6 (SRv6), as
Mastering
well as the
Complexity With
application of this
ACE And
technology in
Patterns:
traditional and
Resolving
emerging services.
Complexity Using
The book begins
ACE and Patterns

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Programming,
with the
Volume I:
development of IP
Mastering
technologies by
Complexity With
focusing on the
ACE And
problems

encountered during
MPLS and IPv6
network

Complexity With
development,
ACE And
giving readers
Patterns:
insights into the
Resolving
problems tackled
Complexity Using
by SRv6 and the
ACE And Patterns

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Vol 1 (C In Depth)

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Programming
Volume I:
Mastering
Complexity With
ACE and
Patterns:
Resolving
Complexity Using
ACE and Patterns
Vol 1 (C In Depth)

value of SRv6. It then goes on to explain SRv6 fundamentals, including SRv6 packet header design, the packet forwarding process, protocol extensions such as Interior Gateway Protocol (IGP), Border Gateway Protocol

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*(BGP), and Path
Computation
Element Protocol
(PCEP) extensions,
and how SRv6
supports existing
traffic engineering
(TE), virtual private
networks (VPN),
and reliability
requirements. Next,
SRv6 network
deployment is*

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*Programming,
introduced,
Volume I:
covering the
Mastering
evolution paths
Complexity With
from existing
ACE And
networks to SRv6
networks; SRv6
networking
deployment
Complexity With
processes, involved
O&M technologies,
Patterns:
and emerging 5G
Resolving
and cloud services
Complexity Using
supported by SRv6.
ACE And Patterns*

Page 178/245

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*Bit Index Explicit
Replication IPv6
encapsulation
(BIERv6), an SRv6
multicast*

*technology, is then
introduced as an
important
supplement to SRv6
unicast technology.
The book concludes
with a summary of
the current status*

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of the SRv6

industry and

provides an outlook

for new SRv6-based

technologies. SRv6

Network:

Programming:

Ushering in a New

Era of IP Networks

collects the

research results of

Huawei SRv6

experts and reflects

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Programming,
the latest
Volume I:
development
Mastering
direction of SRv6.
Complexity With
With rich, clear,
ACE And
practical, and easy-
to-understand
content, the volume
is intended for
Complexity With
network planning
ACE And
engineers, technical
Patterns:
support engineers
Resolving
and network
Complexity Using
administrators who
ACE And Patterns

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need a grasp of the most cutting-edge IP network technology. It is also intended for communications network researchers in scientific research institutions and universities.

Authors: Zhenbin Li is the Chief Protocol

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*Expert of Huawei
Volume I:
and member of the
Mastering
IETF IAB,
Complexity With
responsible for IP
ACE And
protocol research
and standards
promotion at
Mastering
Huawei. Zhibo Hu is
Complexity With
a Senior Huawei
ACE And
Expert in SR and
Patterns:
IGP, responsible for
Resolving
SR and IGP planning
Complexity. Using
and innovation.*

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Cheng Li is a Huawei Senior Pre-research Engineer and IP standards representative, responsible for Huawei's SRv6 research and standardization. On its own, C# simplifies network programming. Combine it with

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the precise instruction found in C# Network Programming, and you'll find that building network applications is easier and quicker than ever. This book helps newcomers get started with a look at the basics of network

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programming, as they relate to C#, including the language's network classes, the Winsock interface, and DNS resolution. Spend as much time here as you need, then dig into the core topics of the network layer.

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Programming,
Volume I:
Mastering
You'll learn to make
socketsconnections
via TCP and

"connectionless"
connections via

UDP.You'll also
discover just how
much help C# gives
you with some
of your toughest

chores, such as
asynchronous
socket programmin

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*g, multithreading,
and multicasting.
Network-layer
techniques are just
a means to an end,
of course; and so
this book keeps
going, providing a
series of detailed ap
plication-layer
programming
examples that show
you how to*

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Programming,
work with real
Volume I:
protocols and real
Mastering
network
environments to
build and implement
a variety of
applications. Use
SNMP to manage
network devices,
SMTP to
communicate with
remote mail
servers, and HTTP

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to Web-enable your applications. And use classes native to C# to query and modify Active Directory entries. Rounding it all out is plenty of advanced coverage to push your C# network programming skills to the limit. For

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example, you'll learn two ways to share application methods across the network: using Web services and remoting. You'll also master the security features intrinsic to C# and .NET--features that stand to benefit all of your

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Network

programming,
Volume I:
projects.

C# Network
Programming With
TCP/IP Sockets in
Java

Foundations of
Python Network
Programming
Extreme C

Systematic Reuse
with ACE and
Frameworks

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Vol 1 (C In Depth)

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*Mastering
Volume 1
Complexity with
ACE and Patterns,
Portable Documents
Push the limits of what
C - and you - can do,
with this high-intensity
guide to the most
advanced capabilities
of C Key Features
Make the most of C's
low-level control,
flexibility, and high*

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*performance A
comprehensive guide
to C's most powerful
and challenging
features A thought-
provoking guide
packed with hands-on
exercises and
examples Book*

*Description There's a
lot more to C than
knowing the language
syntax. The industry
looks for developers*

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*with a rigorous,
scientific*

*understanding of the
principles and
practices. Extreme C
will teach you to use
C's advanced low-
level power to write
effective, efficient
systems. This*

*intensive, practical
guide will help you
become an expert C
programmer. Building*

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*Programming
Volume 1:
Mastering
Complexity With
ACE And
Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns*

on your existing C knowledge, you will master preprocessor directives, macros, conditional compilation, pointers, and much more. You will gain new insight into algorithm design, functions, and structures. You will discover how C helps you squeeze maximum

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*performance out of
critical, resource-
constrained
applications. C still
plays a critical role in
21st-century
programming,
remaining the core
language for precision
engineering, aviations,
space research, and
more. This book
shows how C works
with Unix, how to*

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implement OO principles in C, and fully covers multi-processing. In Extreme C, Amini encourages you to think, question, apply, and experiment for yourself. The book is essential for anybody who wants to take their C to the next level. What you will learn Build advanced

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C knowledge on strong foundations, rooted in first principles Understand memory structures and compilation pipeline and how they work, and how to make most out of them Apply object-oriented design principles to your procedural C code Write low-level code

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*that's close to the
hardware and
squeezes maximum
performance out of a
computer system
Master concurrency,
multithreading, multi-
processing, and
integration with other
languages Unit
Testing and
debugging, build
systems, and inter-
process*

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*communication for C
programming Who
this book is for
Extreme C is for C
programmers who
want to dig deep into
the language and its
capabilities. It will help
you make the most of
the low-level control C
gives you.*

*Complete information
for developers
designing network*

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*programs using the
Windows Sockets
standard. This book's
easy-to-understand
explanations and
sample programs
simplify working with
the Windows Sockets
API. Expert Patrice
Bonner presents
methods and tools for
designing robust
network applications,
including sample*

Page 202/245

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*stream and datagram
client and server
applications.*

*TCP/IP Sockets in C:
Practical Guide for
Programmers, Second
Edition is a quick and
affordable way to gain
the knowledge and
skills needed to
develop sophisticated
and powerful web-
based applications.*

The book's focused,

Page 203/245

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tutorial-based approach enables the reader to master the tasks and techniques essential to virtually all client-server projects using sockets in C.

This edition has been expanded to include new advancements such as support for IPv6 as well as detailed defensive programming

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*strategies. If you
program using Java,
be sure to check out
this book's
companion, TCP/IP
Sockets in Java:
Practical Guide for
Programmers, 2nd
Edition. Includes
completely new and
expanded sections
that address the IPv6
network environment,
defensive*

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*programming, and the
select() system call,
thereby allowing the
reader to program in
accordance with the
most current
standards for
internetworking.*

*Streamlined and
concise tutelage in
conjunction with line-
by-line code
commentary allows
readers to quickly*

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programming web-based applications without having to wade through unrelated and discursive networking tenets.

A comprehensive guide to understanding network architecture, communication protocols, and network analysis to build secure

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Vol 1 (C In Depth)

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applications

compatible with the

latest versions of C# 8

and .NET Core 3.0

Key Features Explore

various network

architectures that

make distributed

programming possible

Learn how to make

reliable software by

writing secure

interactions between

clients and servers

Page 208/245

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Use .NET Core for network device automation, DevOps, and software-defined networking Book Description The C# language and the .NET Core application framework provide the tools and patterns required to make the discipline of network programming as intuitive and enjoyable

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as any other aspect of C# programming. With the help of this book, you will discover how the C# language and the .NET Core framework make this possible. The book begins by introducing the core concepts of network programming, and what distinguishes this field of programming from

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other disciplines. After this, you will gain insights into concepts such as transport protocols, sockets and ports, and remote data streams, which will provide you with a holistic understanding of how network software fits into larger distributed systems.

The book will also explore the intricacies

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*of how network
software is
implemented in a
more explicit context,
by covering sockets,
connection strategies
such as Transmission
Control Protocol
(TCP) and User
Datagram Protocol
(UDP), asynchronous
processing, and
threads. You will then
be able to work*

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*through code
examples for TCP
servers, web APIs
served over HTTP,
and a Secure Shell
(SSH) client. By the
end of this book, you
will have a good
understanding of the
Open Systems
Interconnection (OSI)
network stack, the
various
communication*

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*protocols for that
stack, and the skills
that are essential to
implement those
protocols using the C#
programming
language and the
.NET Core framework.
What you will learn
Understand the
breadth of C#'s
network programming
utility classes Utilize
network-layer*

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*architecture and
organizational
strategies Implement
various
communication and
transport protocols
within C# Discover
hands-on examples of
distributed application
development Gain
hands-on experience
with asynchronous
socket programming
and streams Learn*

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how C# and the .NET Core runtime interact with a hosting network. Understand a full suite of network programming tools and features. Who this book is for: If you're a .NET developer or a system administrator with .NET experience and are looking to get started with network programming, then

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this book is for you.

Basic knowledge of

C# and .NET is

assumed, in addition

to a basic

understanding of

common web

protocols and some

high-level distributed

system designs.

TCP/IP Sockets in C#

Practical Guide for

Programmers

C++ Network

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*Programming, Volume
Volume I:*

C++ Network

Programming: With

*Systematic reuse with
ACE and frameworks*

*Network Programming
for Microsoft Windows*

Hands-On Neural

*Network Programming
with C#*

*Learn effective C++
network*

*Complexity Using
ACE And Patterns
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programming with
Boost.Asio and
become a proficient
C++ network
programmer About
This Book Learn
efficient C++
network
programming with
minimum coding
using Boost.Asio
Your one-stop

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destination to
everything related to
the Boost.Asio library
Explore the
fundamentals of
networking to choose
designs with more
examples, and learn
the basics of
Boost.Asio Who This
Book Is For This
book is for C++

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programming in C++
Volume I:
using Boost.Asio

Mastering
Explore the
Complexity With
networking concepts
ACE And
of IP addressing,

Patterns:
TCP/IP ports and
Mastering
protocols, and LAN
Complexity With
topologies Get
ACE And

Patterns:
acquainted with the
Resolving
usage of the Boost
Complexity Using
libraries Get to know
ACE And Patterns
more about the

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content of Boost.Asio

Volume I:
network

programming and

Asynchronous

programming

Patterns:
Establish

communication

between client and

server by creating

client-server

application

Understand the

Page 223/245

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various functions
inside Boost.Asio

C++ libraries to delve
into network
programming

Discover how to
debug and run the
code successfully In

Detail Boost.Asio is a
C++ library used for
network
programming

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operations.

Organizations use Boost because of its productivity. Use of these high-quality libraries speed up initial development, result in fewer bugs, reduce reinvention-of-the-wheel, and cut long-term maintenance costs.

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Using Boost libraries gives an organization a head start in adopting new technologies. This book will teach you C++ Network programming using synchronous and asynchronous operations in Boost.Asio with

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minimum code,
along with the
fundamentals of
Boost, server-client
applications,
debugging, and more.

You will begin by
preparing and setting
up the required tools
to simplify your
network
programming in C++

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with Boost.Asio.

Then you will learn about the basic concepts in networking such as IP addressing, TCP/IP protocols, and LAN with its topologies.

This will be followed by an overview of the Boost libraries and their usage. Next you

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will get to know more about Boost.Asio and its concepts related to network

programming. We will then go on to create a client-server application, helping you to understand the networking concepts. Moving on, you will discover how

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to use all the functions inside the Boost.Asio C++ libraries. Lastly, you will understand how to debug the code if there are errors found and will run the code successfully. Style and approach An example-oriented book to show you the

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basics of networking
and help you create a
network application
simply using
Boost.Asio, with
more examples for
you to get up and
running with
Boost.Asio quickly.
Create and unleash
the power of neural
networks by

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implementing C# and
Volume I:
.Net code Key

Mastering
Features Get a strong
Complexity With
foundation of neural
ACE And
networks with access
Patterns:
to various machine
Mastering
learning and deep
Complexity With
learning libraries Real-
ACE And
world case studies
Patterns:
illustrating various
Resolving
neural network
Complexity Using
techniques and
ACE And Patterns

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architectures used by
practitioners Cutting-
edge coverage of
Deep Networks,
optimization
algorithms,
convolutional
networks,
autoencoders and
many more Book
Description Neural
networks have made

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a surprise comeback
in the last few years
and have brought
tremendous
innovation in the
world of artificial
intelligence. The goal
of this book is to
provide C#
programmers with
practical guidance in
solving complex

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computational
Volume I:
challenges using
Mastering
neural networks and
Complexity With
C# libraries such as
ACE And
CNTK, and
Patterns:
TensorFlowSharp.

Mastering
This book will take
Complexity With
you on a step-by-step
ACE And
practical journey,
Patterns:
covering everything
Resolving
from the
Complexity Using
mathematical and
ACE And Patterns

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theoretical aspects of
neural networks, to
building your own
deep neural networks
into your applications
with the C# and
.NET frameworks.

This book begins by
giving you a quick
refresher of neural
networks. You will
learn how to build a

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neural network from scratch using packages such as Encog, Aforge, and Accord. You will learn about various concepts and techniques, such as deep networks, perceptrons, optimization algorithms,

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convolutional
networks, and
autoencoders. You
will learn ways to add
intelligent features to
your .NET apps, such
as facial and motion
detection, object
detection and
labeling, language
understanding,
knowledge, and

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intelligent search.

Throughout this
book, you will be
working on

interesting

demonstrations that
will make it easier to
implement complex

neural networks in
your enterprise

applications. What
you will learn

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Understand
perceptrons and how
to implement them in
C# Learn how to
train and visualize a
neural network using
cognitive services
Perform image
recognition for
detecting and labeling
objects using C# and
TensorFlowSharp

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Detect specific image characteristics such as a face using Accord.Net

Demonstrate particle swarm optimization using a simple XOR problem and Encog

Train convolutional neural networks using ConvNetSharp Find optimal parameters

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Programming,
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Complexity With
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Patterns:
Mastering
Complexity With
ACE And
Patterns:
Resolving
Complexity Using
ACE And Patterns

for your neural
network functions
using numeric and
heuristic
optimization
techniques. Who this
book is for This book
is for Machine
Learning Engineers,
Data Scientists, Deep
Learning Aspirants
and Data Analysts

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who are now looking
to move into
advanced machine
learning and deep
learning with C#.

Prior knowledge of
machine learning and
working experience
with C#

programming is
required to take most
out of this book

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The revision of the definitive guide to Unix system programming is now available in a more portable format.

Practical explanations are given of Microsoft's networking APIs.

This definitive reference covers the

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programming,
network
Volume I:
programming
Mastering
interfaces available on
Complexity With
the Windows 98,
ACE And
Windows NT/200,
Patterns:
and Windows CE
Mastering
platforms. The CD-
Complexity With
ROM features
ACE And
reusable code
Patterns:
examples in Visual
Resolving
C++.