Chapter 1: Performance Testing Fundamentals   **Day-1**

· The incident

· The aftermath

· Performance testing

· Performance testing and tuning

· Baselines

· Load and stress testing

· JMeter to the rescue

· Up and running with JMeter

· Installation

· Installing the Java JDK

· Setting JAVA_HOME

· Running JMeter

· Tracking errors during test execution

· Configuring JMeter

· Summary

Chapter 2: Recording Your First Test   **Day-1**

· Configuring the JMeter HTTP proxy server

· Setting up your browser to use the proxy server

· Using a browser extension

· Changing the system settings

· Running your first recorded scenario

· Anatomy of a JMeter test

· Test Plan

· Thread Groups

· Controllers

· Samplers

· Logic controllers

· Test fragments

· Listeners

· Timers

· Assertions

· Configuration elements

· Pre-processor and post-processor elements

· Summary

Chapter 3: Submitting Forms   **Day-2**

· Capturing simple forms

· Handling checkboxes

· Handling radio buttons

· Handling file uploads

· Handling file download

· Handling the XML response

· Summary

Chapter 4: Managing Sessions   **Day-2**

· Managing sessions with cookies

· Managing sessions with URL rewriting

· Summary

Chapter 5: Resource Monitoring   **Day-3**

· Basic server monitoring

· Setting up Apache Tomcat Server

· Configuring Tomcat users

· Setting up a monitor controller in JMeter

· Monitoring the server with a JMeter plugin

· Installing the plugins

· Adding monitor listeners to the test plan

· Summary

Chapter 6: Distributed Testing   **Day-3**

· Remote testing with JMeter

· Configuring JMeter slave nodes

· Configuring one slave per machine

· Configuring the master node to be tested against one slave per machine

· Configuring multiple slave nodes on a single box

· Configuring the master node to be tested against multiple slave nodes on a single box

· Executing the test plan

· Viewing the results from the virtual machines

· Summary

Chapter 7: Timers and Functions   **Day-4**

· JMeter properties and variables

· JMeter functions

· The Regular Expression tester

· The Debug sampler

· Using timers in your test plan

· The Constant timer

· The Gaussian random timer

· The Uniform random timer

· The Constant throughput timer

· The Synchronizing timer

· The Poisson random timer

· The JDBC Request sampler

· Configuring a JDBC Connection Configuration component

· Adding a JDBC Request sampler

· Summary

Chapter 8: Helpful Tips Day-4

· JMeter integration with selenium

· Handling FTP request

· Installing CA certificate in the browser

· Testing REST web services

· Parameterization using CSV File

· Parameterization using Test Plan

. Summary