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Collana	Community experience distilled
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Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Building Responsive Android Applications; Introducing the Dalvik Virtual Machine; Memory sharing and the Zygote; Understanding the Android thread model; The main thread; Unresponsive apps and the ANR dialog; Maintaining responsiveness; Concurrency in Android; Correctness issues in concurrent programs; Liveness issues in concurrent programs; Android-specific concurrency issues; Android-specific concurrency constructs; Summary; Chapter 2: Staying Responsive with AsyncTask Introducing AsyncTaskDeclaring AsyncTask types; Executing AsyncTasks; Providing feedback to the user; Providing progress updates; Canceling AsyncTask; Handling exceptions; Controlling the level of concurrency; Common AsyncTask issues; Fragmentation issues; Activity lifecycle issues; Handling lifecycle issues with early cancellation; Handling lifecycle issues with retained headless fragments; Applications of AsyncTask; Summary; Chapter 3: Distributing Work with Handler and HandlerThread; Understanding Looper; Building responsive apps with Handler; Scheduling work with post Canceling a pending RunnableScheduling work with send; Canceling pending Messages; Composition versus Inheritance; Multithreaded example; Sending Messages versus posting Runnables; Building responsive apps with HandlerThread; Handler programming issues; Leaking implicit references; Leaking explicit references; Applications of

Sommario/riassunto

Concurrent Programming on Android is a step-by-step guide that builds a complete picture of the concurrency constructs available on the Android platform.This book is for Android developers who want to learn about the advanced concepts of Android programming. No prior knowledge of concurrency and asynchronous programming is required. This book is also targeted towards Java experts who are new to Android.