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Efficient Android Threading: Asynchronous Processing Techniques for Android Applications

Anders Goransson

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Multithreading is essential if you want to create an Android app with a great user experience, but how do you know which techniques can help solve your problem? This practical book describes many asynchronous mechanisms available in the Android Sdk, and provides guidelines for selecting the ones most appropriate for the app you're building.
Author Anders Goransson demonstrates the advantages and disadvantages of each technique, with sample code and detailed explanations for using it efficiently. The first part of the book describes the building blocks of asynchronous processing, and the second part covers Android libraries and constructs for developing fast, responsive, and well-structured apps.

- Understand multithreading basics in Java and on the Android platform
- Learn how threads communicate within and between processes
- Use strategies to reduce the risk of memory leaks
- Manage the lifecycle of a basic thread
- Run tasks sequentially in the background with *HandlerThread*
- Use Java's Executor Framework to control or cancel threads
- Handle background task execution with *AsyncTask* and *IntentService*
- Access content providers with *AsyncQueryHandler*
- Use loaders to update the Ui with new data

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