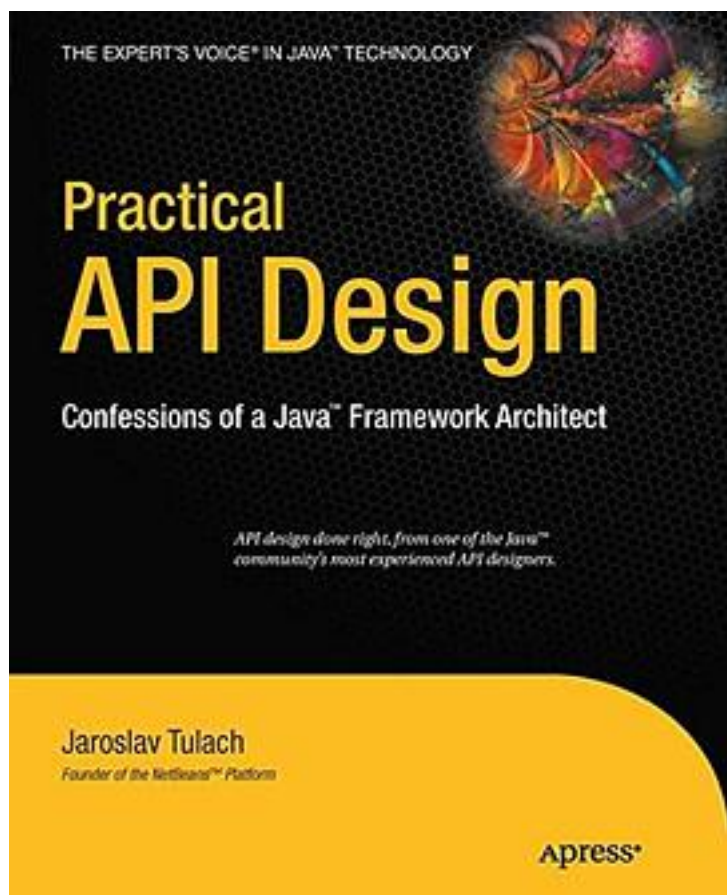# Practical API Design

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Java Framework Architect fills that need! * Teaches you how to write an API that will stand the test of time * Written by the designer of the NetBeans API at Sun Technologies * Based on best practices, scalability, and API design patterns What you'll learn * What an API is and what the theories are behind good API design * When and why to build an API * API design patterns applicable to all programming languages, especially modern, object--oriented languages * How to optimize and test APIs Who this book is for This book is recommended to every API architect who prefers a bit more engineering design over a purely artistic one. Table of Contents * The Art of Building Modern Software * The Motivation to Create an API * Determining What Makes a Good API * Ever-Changing Targets * Do Not Expose More Than You Want * Code Against Interfaces, Not Implementations * Use Modular Architecture * Separate APIs for Clients and Providers * Keep Testability in Mind * Cooperating with Other APIs * Runtime Aspects of APIs * Declarative Programming * Extreme Advice Considered Harmful * Paradoxes of API Design * Evolving the API Universe * Teamwork * Using Games to Improve API Design Skills * Extensible Visitor Pattern Case Study * End-of-Life Procedures

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