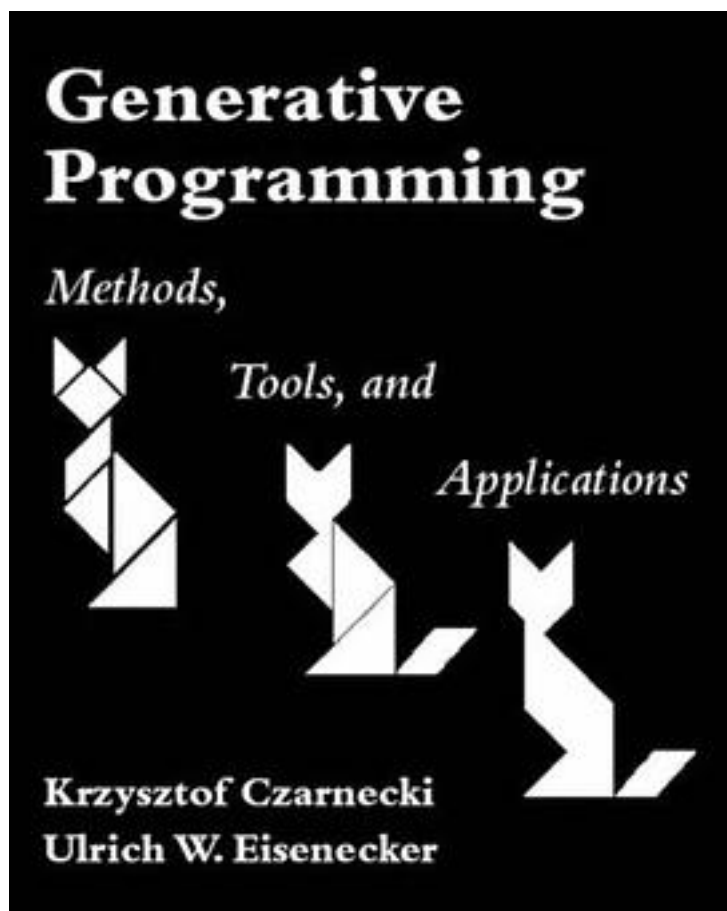# Generative Programming

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Generative Programming (GP) offers the promise of moving from "one-of-a-kind" software systems to the semi-automated manufacture of wide varieties of software -- essentially, an assembly line for software systems. GP's goal is to model software system families and build software modules such that, given particular requirements

specs, highly customized and optimized intermediate or end products can be constructed on demand. This is the first book to cover Generative Programming in depth. The authors, leaders in their field, introduce the two-stage GP development cycle: one stage for designing and implementing a generative domain model, and another for using the model to build concrete systems. They review key differences between generative modeling and processes used for "one-of-a-kind" systems. Next, they introduce key GP concepts such as feature models, and demonstrate "generic programming" techniques for creating components which lend themselves to easy combination and reuse. The book also introduces Aspect Oriented Programming, which allows developers to solve key recurring problems in traditional O-O development; and presents metaprogramming techniques for building powerful program generators. Three detailed case studies demonstrate the entire generative development cycle, from analysis to implementation.

作者介绍:

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评论

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书评

NewCppDesign只讲鱼，而这本书更讲"渔"。这本书引出C++模板元编程，是基于系统的方法学，是自顶向下的，相反NewCppDesign则可以认为是自底向上的。

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