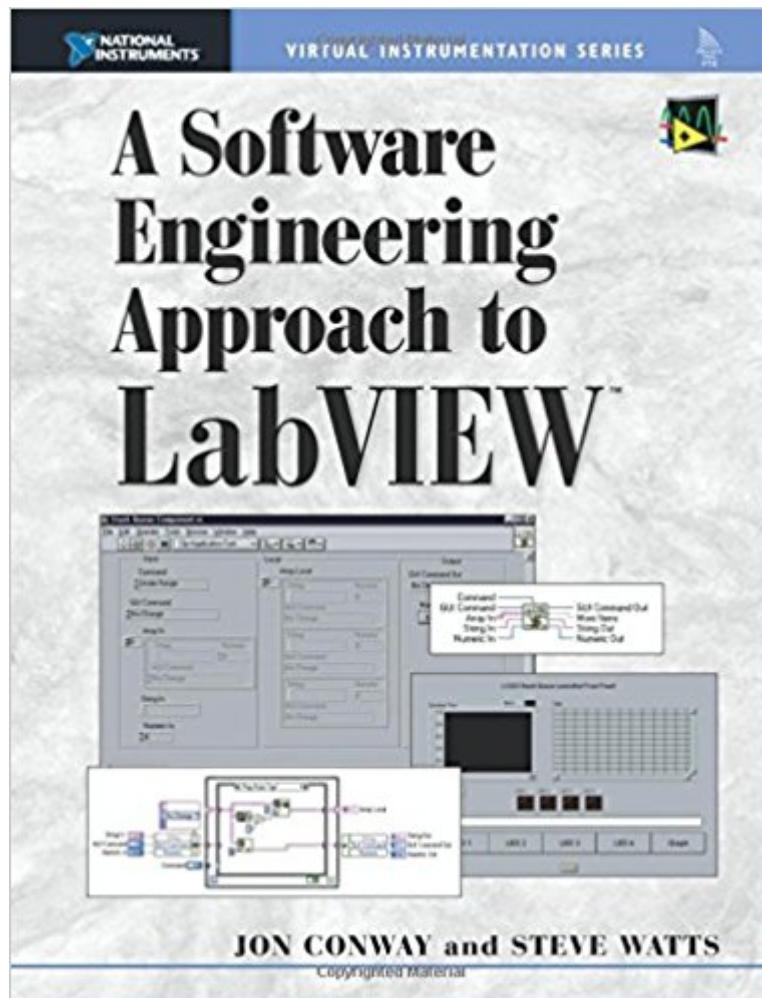


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# A Software Engineering Approach To LabVIEW



## **Synopsis**

A Software Engineering Approach to LabVIEW, by working programmers Jon Conway and Steve Watts, applies for the first time the techniques and principles of software design to LabVIEW programming. The LCOD technique designs flexibility into applications, making them more robust and much more easily adaptable to changes, even in large, industrial applications. Complete with examples and working code.

## **Book Information**

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## **Customer Reviews**

As a self-taught, 10-year veteran LabVIEW developer, reading this book was a huge eye-opener to all the things that you should be doing with a large project. I recently changed jobs to a company that practices RUP, and have been struggling to fit LabVIEW into this development framework. This is the crash-course in software engineering I should have taken in school, but didn't. Some of the chapters cover topics in NI's courses and online documentation (front panel and block diagram styles, state machines, loose-coupling and strong-cohesion, GOOP). However the real jems in this book are:1) how to put together software specifications for proposals, including strong focus on pre-coding tasks such as GUI prototyping for customers and post-coding tasks such as testing and metrics for customer acceptance. Much of the architecture of a project occurs at the proposal/specification stage and this book dedicates a whole chapter to it including an example specification;2) a methodical approach to defining objects ("components" in the language of this book, but GOOP to the rest of us);3) the concept of data flow designs to section up a larger project

into smaller chunks you can get your mind around. The examples are some of the best I have seen in print. The authors have not chosen overly-simplistic examples, nor have they chosen overly-abstract examples. There are plenty of screen shots and "software meat" to look at. The other part of this book that I liked was the "Why LabVIEW Sucks" section, which addresses the "C++/C#/VB/.net/[insert other language here] is so much better than LabVIEW, why should I use LabVIEW" question every LabVIEW developer runs into eventually.

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