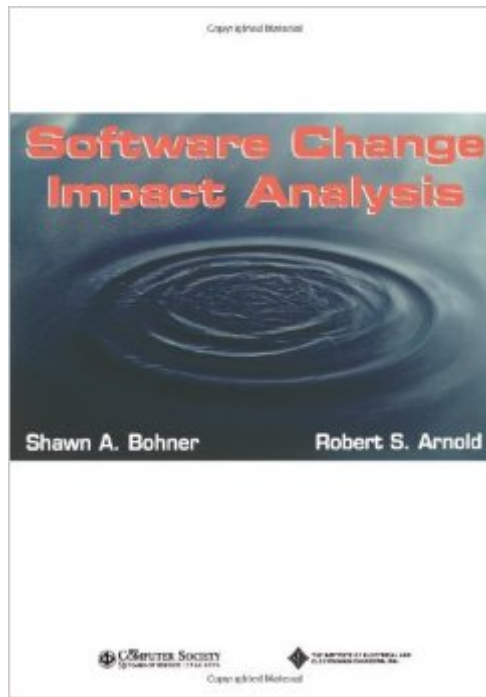


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# Software Change Impact Analysis



## Synopsis

As software systems become increasingly large and complex, the need increases to predict and control the effects of software changes. This book captures the latest information on the science and art of determining what software parts affect each other. It is a handy one-volume source of useful information about software change impact analysis techniques and technical results. The book frames the field, focuses attention, and tempers expectations. The book provides a battery of ideas for doing impact analysis better. The reader will gain a healthy respect for the strengths and limitations of impact analysis technology and a solid background that will provide valuable for years to come. The book identifies key impact analysis definitions and themes and illustrates those themes through a collection of representative papers. It includes reports on software source code dependency analysis and software traceability analysis and proposes how results from both areas can more effectively support impact analysis in software engineering repositories. It also describes why impact representation and determination techniques are at the heart of both source dependency analysis and traceability analysis. The papers provide fundamental information of enduring value and were selected by how well they illustrate the important themes and how well they equip the reader with a solid understanding for tackling impact analysis problems.

## Book Information

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## Customer Reviews

This collection of papers on software change impact analysis covers both practice and theory. The

book starts with an introduction to change impact analysis. This intro covers terms, theories and practices that have emerged and are accepted among most researchers and practitioners, and provides a basic discussion of traceability and impact analysis. Chapter 1 is titled Nature of Impact Analysis and contains A Process Model for Software Maintenance, Impact Analysis-Towards A Framework for Comparison, and The Year 2000 Problem: Impact, Strategies, and Tools. Although the last paper is obviously out of date, some of the techniques are worth examining, especially since a good amount of the Y2K problem required impact and risk analysis. State of the Practice is the topic of chapter 2, and contains the following papers: An Analysis of the Requirements Traceability Problem, Software Change Impact Analysis for Design Evolution and Configuration Management Survey. These three papers are a combination of practice and theory. The material in Chapter 3, Automated Support for Impact Analysis, is spotty. Some is out of date in my opinion, while other papers are as fresh today as when the book was published. Papers in this chapter are: The Integrated CASE Manifesto, A Practical Software Maintenance Environment, Intelligent Assistance for Software Development and Maintenance and Maintenance Support for Object-Oriented Programs (the last is excellent!). Chapter 4 contains the most practical material in the collection.

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