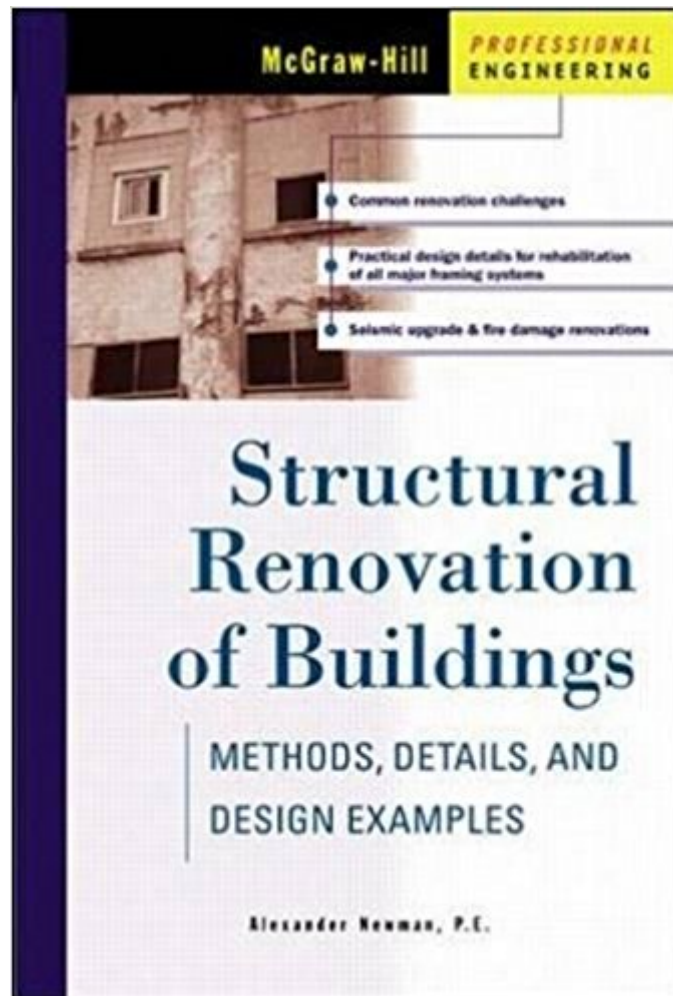




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# Structural Renovation Of Buildings: Methods, Details, & Design Examples



## Synopsis

Make any renovation job go smoother. Building renovation, conservation and reuse represents more than half of all construction work - and is projected to increase to 80% by 2004. Structural Renovation of Buildings, by Alexander Newman, puts a single, convenient source of information about all aspects of structural renovation and strengthening of buildings at your fingertips. While its focus is largely on low and midrise buildings, you can apply the principles it clarifies to buildings of any size - steel-framed, masonry, or wood. Whether you're repairing deteriorated concrete...rehabilitating slabs on grade...strengthening lateral-load resisting systems...renovating a building facade...handling seismic upgrades or fire damage, you'll find this time-and-trouble-saving guide loaded with practical tips, methods, and design examples. It's also heavily illustrated with autoCAD generated details, supplier illustrations of materials, procedural techniques, and much, much more.

## Book Information

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## Customer Reviews

Building renovation is booming, with more than 55 percent of all construction involving renovation, conservation, or reuse. This unique, practical guide, written by renowned engineer Alexander Newman, P.E., explains how to improve the structure of any building. Up-to-date, comprehensive, and packed with illustrations, case studies, and savvy advice drawn from the author's extensive experience, Structural Renovation of Buildings makes it easier for all building professionals to plan

structural improvements, and to handle unforeseen contingencies that arise during projects.

Alexander Newman shows you how to:

- \*Make accurate assessments of existing conditions
- \*Compare options for cost-effective solutions
- \*Renovate and strengthen buildings of all framing types—steel, concrete, post-tensioned concrete, wood, masonry, and pre-engineered metal
- \*Deal with real problems most often encountered in renovation and reuse projects
- \*Perform seismic upgrades of lateral-load-resisting systems, with four actual case studies
- \*Restore fire-damaged buildings
- \*Repair and strengthen slabs on grade
- \*Renew facades with improved structural integrity

Helping you build on the past-experience—and improve your and older buildings' future--this one-of-a-kind practical guide is a resource that can provide answers for any structural improvement task.

Alexander Newman, P.E., is principal structural engineer with Maguire Group, Inc., a national architectural, engineering and planning firm, in Foxborough, Massachusetts. With two decades of engineering and management experience, he has worked as project engineer with a consulting engineering firm, design engineer with a light-gage framing panel manufacturer, and manager of fabrication for a steel fabricator. He has planned and supervised structural renovation of numerous buildings throughout the country, including a Boston Edison switching and conversion station that won the 1990 American Consulting Engineering Council of New England Award for Engineering Excellence. Mr. Newman holds an advanced degree in structural engineering from the Moscow Civil Engineering Institute in Russia, and a master's degree in business administration with high honors from Boston University. He is the author of the Bestselling Metal Building Systems, also from McGraw-Hill, and a number of award-winning articles that have appeared in leading engineering publications. Additionally, he conducts continuing-education seminars on metal building systems for design professionals sponsored by the American Society of Civil Engineers and other organizations, and teaches at Northeastern University.

This book has useful practical advice for any structural engineer involved building renovation projects. There aren't many books like this one...in fact, I can't think of one other. It contains a wealth of examples and approaches. There is also a lot of useful historical information, such as the history of cast iron making, steel fabrication, concrete, reinforcing....This is the second book by Alexander Newman that I've read. He is a unique individual in the world of structural engineering. I think this guy could have easily become an academic - but, he's down in the trenches with the rest of us working on real world projects. He can write well and obviously has a wealth of experience..

This is the best book I know of on the topic of structural renovation of buildings. Though probably no book could answer every question you might have, the 800+ pages of this book will answer most of them. The author, Alexander Newman, is clearly an experienced expert, so this book is authoritative and has a very practical orientation, with a straightforward writing style, both basic and specialized information on a wide variety of topics, and plenty of helpful illustrations of details which can be used on your projects. I should also add that much of the information in this book is directly relevant to structures other than buildings, so don't miss out on this book if you're involved in renovation of other types of structures. Highly recommended to anyone involved in structural renovation, and worth every penny.

It's a good and informative book. I think most materials are directly or indirectly related to the author experienced. But if you are looking a book which explained example thru calculation and design problems regarding renovation, this book is mostly " an explanation" book, not a design "calculation" one.

Book covers many hard to find topics related to building renovation work. I use it as a trusted resource when working on rehab projects.

This book contains some valuable advice and methods for renovating older buildings.

This book is well organized and presented. It covers a lot, and is more comprehensive than other books of its type. It has very good material on concrete design/repair, and also covers wood structures, steel, and pre-engineered buildings quite well. The material on masonry is also good, but a discussion about rusted steel lintels embedded in masonry would have helped, as this is a common source of problems in 20th century buildings. There are few handbooks that come as close as this one to a thorough treatment of the subject, and it is a useful book for architects and engineers who deal with renovation.

Good

Detailed book on many aspects of renovation. Detailed examples, well explained with solid diagrams. Has both the math to some of the more technical issues as well as good explanations of

concepts.

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