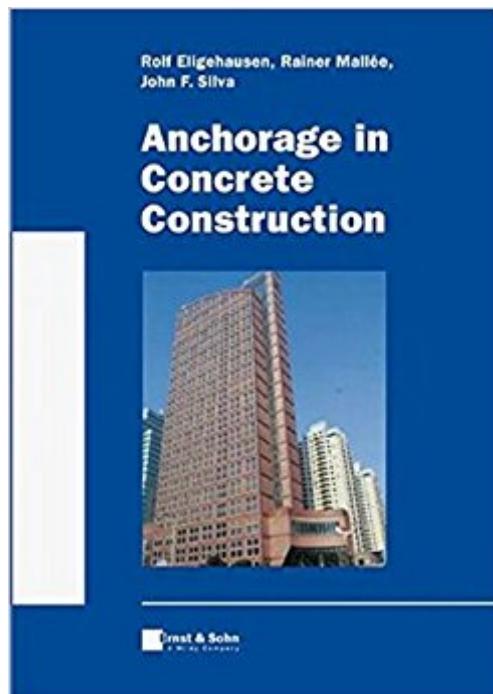


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# Anchorage In Concrete Construction



## Synopsis

A comprehensive treatment of current fastening technology using inserts (anchor channels, headed stud), anchors (metal expansion anchor, undercut anchor, bonded anchor, concrete screw and plastic anchor) as well as power actuated fasteners in concrete. It describes in detail the fastening elements as well as their effects and load-bearing capacities in cracked and non-cracked concrete. It further focuses on corrosion behaviour, fire resistance and characteristics with earthquakes and shocks. It finishes off with the design of fastenings according to the European Technical Approval Guideline (ETAG 001), the Final Draft of the CEN Technical Specification 'Design of fastenings for use in concrete' and the American Standards ACI 318-05, Appendix D and ACI 349-01, Appendix B.

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A comprehensive treatment of current fastening technology using inserts (anchor channels, headed stud), anchors (metals expansion anchor, undercut anchor, bonded anchor, concrete screw and plastic anchor) as well as power actuated fasteners in concrete. It describes in detail the fastening elements as well as their effects and load-bearing capacities in cracked and non-cracked concrete. It further focuses on corrosion behaviour, fire resistance and characteristics with earthquakes and shocks. it finishes off with the design of fastenings according to the European Technical Approval Guideline (ETAG 001), the Final Draft of the CEN Technical Specification "Design of Fastenings for use in concrete" and the American Standards ACI 318-05, Appendix D and ACI 349-01, Appendix B. Within the international field of construction, both German companies and experts play an

important role in fastening technology. The authors represent both groups, first two have already published a successful German edition. This English-language edition has been revised and third author has joined the team.

Rolf Elげhausen, Prof. Dr.-Ing. studied structural engineering at the Technical University Brunswick and gained his doctorate from the University of Stuttgart. Following two years of research at the University of California Berkeley, he became professor for fastenings technology at Otto Graf Institute, University of Stuttgart in 1984. He is a member of numerous national and international expert commissions in the fields of steel-reinforced concrete and fastening technologies and the author of a large number of essays on these topics. Rainer Mall, Dr.-Ing. studied structural engineering at the Technical University Brunswick and gained his doctorate from the University of Stuttgart. Between 1980 and 1987 he was head of Professor Rehm's engineering company in Munich, before becoming head of development in fastening elements at fischer in Waldachtal. Since 1996 he has been head of research at the fischer group of companies. John F. Silva, MS, SE gained his Master of Civil Engineering at the University of California at Berkeley and is a Structural Engineer. He worked for ca. 10 years in San Francisco at two renowned engineering firms concentrating on inter alia fastenings during earthquakes. He worked in the development centre at Hilti for four years and currently works in their San Francisco offices.

If you design concrete anchors, this book is a must have. Not only does it provide an in-depth discussion as to the various failure modes, but it also goes into the design codes that govern such systems. It treats many of the typical systems used for embedment: post-installed anchors, cast-in-place headed bolts, screw anchors, cast-in channels, etc. The book also has a wealth of testing data (especially when it comes to load-displacement curves; if you've ever wondered about your design under sustained loads). But probably the best aspect of this book has to be its discussion of fatigue loading (including high cycle loads). In fact, this is the only text I can think of that has such a discussion. It considers such loading in both cracked and uncracked concrete (while acknowledging some areas that need research), and provides some good recommendations. Excellent book.

The concepts and ideas in this book are covered very well. Where other references and text books only scratch the surface and do not give engineers guidance in more challenging applications, this book helps tremendously. This book will also help engineers understand the mechanisms and failure

modes of anchoring which is required now in the United State's International Building Code.

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