Anchorage in Concrete Construction
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DESCRIPTION

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.

ABOUT THE AUTHOR

Rolf Eligehausen, 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.

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