

Günter Rombach

# Anwendung der Finite-Elemente-Methode im Betonbau

Fehlerquellen  
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Bauingenieur-Praxis

# Anwendung Der Finiteelementemethode Im Betonbau Paper Only

**Christian Barth, Prof. Dr.-Ing.,Walter  
Rustler, Dipl.-Ing.**

## **Anwendung Der Finiteelementemethode Im Betonbau Paper Only:**

*Anwendung der Finite-Elemente-Methode im Betonbau* Günter Rombach, 2007-02-27 Die einfachen klar berschaulbaren statischen Berechnungen werden zunehmend von numerischen Verfahren u a basierend auf der Finite Elemente Methode verdrängt Anhand praxisrelevanter Beispiele aus dem Hoch und Ingenieurbau werden Fragen der numerischen Abbildung von Betontragwerken die dabei auftretenden Probleme und mögliche Fehlerquellen erläutert Das Buch richtet sich sowohl an praktisch tätige Bauingenieure als auch an Studierende Der schnelle Ausverkauf der 1 Auflage hat gezeigt das Buch schließt eine Lücke *Die Bautechnik*, 1987 *Anwendung der Finite-Elemente-Methode Im Betonbau* Günter Rombach, 2015-12-09

*Anwendung der Finite-Elemente-Methode im Bauwesen*, 1980 **Einführung in die Finite-Elemente-Methode für Bauingenieure** Diethard Thieme, 1996-01 *Einführung in die Finite-Elemente-Methode für Bauingenieure* Diethard Thieme, 1990 *Anwendung der Finite-Elemente-Methode*, 1982 **Finite Elemente in der Bruchmechanik** H.-P. Rossmann, 2013-11-09 *Die Anwendung der Finite-Elemente-Methode zur Abschätzung des Einflusses von Rissen im Betongefüge auf die Wärmedehnzahl von Beton* Hermann Schröder, 1983 **FEM** Bernd Klein, 2013-03-09 Die CAE Technik als integratives Verfahren zum Konstruieren und Berechnen verändert derzeit die Arbeitsweise der Ingenieure Als universelles Lösungsverfahren hat sich die Finite Element Methode bewährt die in der Elastostatik Elastodynamik Wärmeleitung und Strömungsmechanik anwendbar ist *Eine Finite-Elemente-Methode und ihre Anwendung zur Erstellung von digitalen Geländemodellen* Hans-Jürgen Schaffeld, 1986 **Finite Element Design of Concrete Structures** Guenter Axel Rombach, 2004 In *Finite Element Design of Concrete Structures* practical problems and their solutions the author addresses this blind belief in computer results by offering a useful critique that important details are overlooked due to the flood of information from the output of computer calculations Indeed errors in the numerical model may lead in extreme cases to structural failures as the collapse of the so called Slepner platform has demonstrated *Festigkeitslehre und FEM-Anwendungen* Josef Adam, 1991 *Anwendung der Finite-Elemente-Methode im Bauwesen. Tagungsband zum Seminar 'Anwendung der Finite-Elemente-Methode im Bauwesen' im Haus der Technik, Nürnberg, vom 6. Februar 1980*, 1980 **FEM** Bernd Klein, 1999-01 *Finite Elemente in der Baustatik-Praxis* Christian Barth, Prof. Dr.-Ing., Walter Rustler, Dipl.-Ing., 2013 Die Finite Elemente Methode FEM hat sich durch ihre Universalität und Allgemeingültigkeit auch im Bauwesen fest etabliert Ein statisches System in ein FE Programm einzugeben ist in der Regel ziemlich leicht Dies tut jedoch häufig darüber hinweg dass fundierte Kenntnisse bezüglich der Theoriehintergründe und der verwendeten Software unerlässlich sind Alle sechs Kapitel der Voraufgabe wurden komplett bearbeitet und an die aktuellen Normen angepasst Neu hinzugekommen ist das Kapitel 7 Eigenwertlösungen das u a die Stabilitätsanalyse die Dynamische Analyse und die Antwortspektrenmethode behandelt Bei allen Kapiteln stehen die FE Modellierungen mit zahlreichen Anwendungsbeispielen im Vordergrund Aus dem Inhalt Grundlagen zur Finite Elemente Methode Vom realen Bauwerk zum FE Modell Fehlerquellen

bei Finite Elementen Lösungen Modellierung von Untergrenzen Lagerbedingungen Bodenmodelle Eigenwertlösungen In der Beuth Mediathek stehen alle Beispiele sowie Testversionen der FE Programme RFEM und RSTAB zum kostenlosen Download bereit

**FEM - Finite-Elemente-Methode im konstruktiven Ingenieurbau** Helmut Ahlert, 2002

**Finite Elemente-Methoden** Klaus-Jürgen Bathe, 1986 *Anwendung der Finite-Elemente-Methode zur integrativen Berechnung von Mikrostrukturinformationen in der Umformtechnik* Dirk Gade, 1999

**Anwendungsmöglichkeiten für die Finite Elemente-Methode** Michael Lastro, 2007 Bachelor Thesis aus dem Jahr 2006 im Fachbereich Maschinenbau einseitig bedruckt Note 2 Fachhochschule Technikum 11 Eintragungen im Literaturverzeichnis Sprache Deutsch Abstract Im ersten Kapitel werden die Grundlagen der FEM beschrieben Was steckt dahinter Wie sieht die Vorgehensweise aus Welches Ergebnis erhalte ich hiermit Diese Fragen sollen möglichst einfach und genau erläutert werden Nach einem Einblick in die Grundlagen werden die Einsatzgebiete dieser Methode beschrieben In welchen Branchen und in welchen Fällen kann diese Methode verwendet werden Anhand dessen wird im letzten Teil ein Einführungsbeispiel die Theorie veranschaulicht In einem Vergleich zwischen alter bzw manueller Technik und der neuen CAD Technik Die am weitesten verbreitete Methode zur Berechnung von komplexen Strukturen ist die Finite Elemente Methode Dies gilt sowohl für den Maschinenbau als auch für den Apparatebau

Finite element method is one of the most important engineering software for design This document describes a method to simulate problems in structural mechanics That means that a designer can use a software to analyse products before there will be a serial production of them How do you use it and where do you use this method These questions are answered with a lot of theory and also with some practical examples Interesting is also the difference between the old method manual calculating and the new method engineering software Some basic requirements were given by the school e.g mechanical calculation and working with engineering software Without them it could not have been possible to solve the examples During the project there were some problems with the software but after all all tasks were accomplished

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