



# **Numerical Approximation Methods for Elliptic Boundary Value Problems: Finite and Boundary Elements (Texts in Applied Mathematics)**

*Olaf Steinbach*

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This book presents a unified theory of the Finite Element Method and the Boundary Element Method for a numerical solution of second order elliptic boundary value problems. This includes the solvability, stability, and error analysis as well as efficient methods to solve the resulting linear systems. Applications are the potential equation, the system of linear elastostatics and the Stokes system. While there are textbooks on the finite element method, this is one of the first books on Theory of Boundary Element Methods. It is suitable for self study and exercises are included.



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