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~~Explanation of the  
Finite Element Method  
(FEM)~~

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The extended finite element method (XFEM) is a numerical technique based on the generalized finite element method (GFEM) and the partition of unity method (PUM). It extends the classical

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finite element method  
by enriching the  
solution space for  
solutions to differential  
equations with  
discontinuous  
functions.

## *The Finite Element Method: Its Basis and Fundamentals*

This document  
presents solutions to  
many of the problems  
contained in The Finite  
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Fundamentals. The problems included in the text range from those whose solution are quite simple to some whose solutions are quite involved.

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In particular the first volume which was entitled The Finite Element Method: The Basis. is now renamed The Finite Element

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Method: Its Basis and  
Fundamentals. This  
volume. has been  
considerably  
reorganized from the  
previous one and is  
now, we believe,  
better. suited for  
teaching fundamentals  
of the finite element  
method.

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Fundamentals offers a complete introduction to the basis of the finite element method, covering fundamental theory and worked examples in the detail required for readers to apply the knowledge to their own engineering problems and understand more advanced applications.

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Together with the second and third self-contained volumes (0750663219 and 0750663227), The Finite Element Method Set (0750664312) provides a formidable resource covering the theory and the application of FEM, including the basis of the method, its application to advanced solid and structural mechanics and to computational

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fluid dynamics.

And  
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The Finite Element  
Method for Fluid  
Dynamics offers a  
complete introduction  
the application of the  
finite element method  
to fluid mechanics. The  
book begins with a  
useful summary of all  
relevant partial  
differential equations

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before moving on to  
discuss convection  
stabilization  
procedures, steady and  
transient state  
equations, and  
numerical solution of  
fluid dynamic  
equations.

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Sixth Edition of this  
influential best-selling  
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comprehensive text  
and reference yet on  
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for all engineers and  
mathematicians.

*Finite element method*

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the fast multipole method. Combined finite-discrete element method. Following the work by Munjiza and Owen, the combined finite-discrete element method has been further developed to various irregular and deformable particles in many applications including pharmaceutical tableting, packaging and flow simulations, and impact analysis.

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The finite element method is a systematic way to convert the functions in an infinite dimensional function space to first functions in a finite dimensional function space and then finally ordinary vectors (in a vector space) that are tractable with numerical methods.

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Zienkiewicz, CBE, FRS  
UNESCO Professor of  
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theory and the application of FEM, including the basis of the method, its application to advanced solid and structural mechanics and to computational fluid dynamics.

## *The Finite Element Method: Its Basis and Fundamentals*

The finite element method was characterized by the subdivision of the total

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domain of the problem into a set of sub-domains called elements. The union of such elements gave the total domain. The subdivision of the domain into such components is laborious, necessitating mesh generation.

*Detailed Explanation of  
the Finite Element  
Method (FEM)*

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