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The finite element method (FEM) is a systematic numerical method for solving problems of engineering and

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Basic XFEM Concepts • is an extension of the conventional finite element method based on the concept

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of partition of unity; •
allows the presence of discontinuities in an element by enriching degrees of freedom with special

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Computational fluid dynamics (CFD) is a branch of fluid mechanics that uses numerical analysis and data structures to analyze and solve problems that involve fluid flows. Computers are

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used to perform the calculations required to simulate the free-stream flow of the fluid, and the interaction of the fluid (liquids and gases) with surfaces defined by boundary conditions.

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[Computational fluid dynamics](#)
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Computational
electromagnetics (CEM),
computational
electrodynamics or

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electromagnetic modeling is the process of modeling the interaction of electromagnetic fields with physical objects and the environment.. It typically involves using computer programs to compute

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approximate solutions to
Maxwell's equations to
calculate antenna
performance, electromagnetic
compatibility, radar cross
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