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detailed explanation of the finite element method fem May 21 2023 mar 15 2016 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

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differential equations pde that occur in problems of engineering and mathematical physics the basic concept of fem is to divide continuous bodies into a mesh of simple parts the so called finite elements [what is the finite element method ieee innovation at work](#) Apr 20 2023 the finite element method is a tool for computing approximate solutions to complex mathematical problems it is generally used when mathematical equations are too complicated to be solved in the normal way and some degree of error is tolerable

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