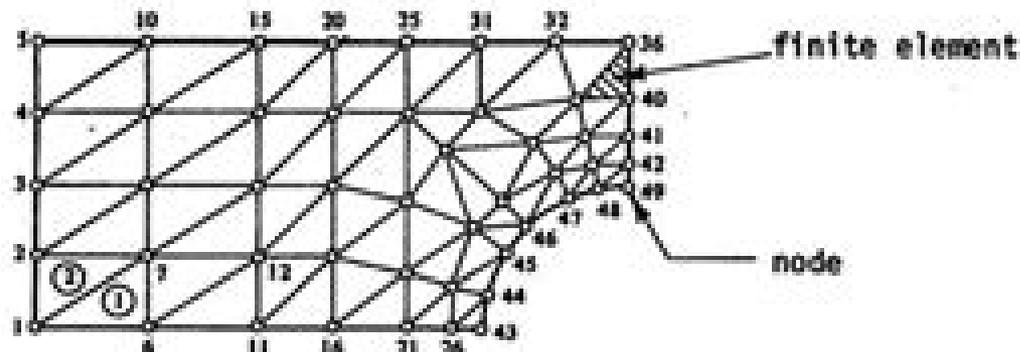


# *Introduction to Finite Element Analysis*

The finite element method is a computational scheme to solve field problems in engineering and science. The technique has very wide application, and has been used on problems involving *stress analysis, fluid mechanics, heat transfer, diffusion, vibrations, electrical and magnetic fields*, etc. The fundamental concept involves dividing the body under study into a finite number of pieces (subdomains) called *elements* (see Figure). Particular assumptions are then made on the variation of the unknown dependent variable(s) across each element using so-called *interpolation or approximation functions*. This approximated variation is quantified in terms of solution values at special element locations called *nodes*. Through this discretization process, the method sets up an algebraic system of equations for unknown nodal values which approximate the continuous solution. Because element size, shape and approximating scheme can be varied to suit the problem, the method can accurately simulate solutions to problems of complex geometry and loading and thus this technique has become a very useful and practical tool.



# Introduction To Finite Element Methods

**Jicheng Xie**



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