

## *Finite Element Method Solution Manual*

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1.3. The modern development of the finite element method began in 1941 with the work of  
Hrennikoff in the field of structural engineering. 1.4. The direct stiffness method was introduced in  
1941 by Hrennikoff. However, it was not commonly known as the direct stiffness method until 1956.  
1.5.

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As computer developed it made possible to solve thousands of equations in a matter of minutes.  
1.7. The following are the general steps of the finite element method. Step 1 Divide the body into  
an equivalent system of finite elements with associated nodes and choose the most appropriate  
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system. 1.2. Discretization means dividing the body (system) into an equivalent system of finite  
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guidance. We give solutions to the exercises that do not require the use of a computer program.  
However, to indicate how the exercises in which a finite element program is to be used might be  
solved, we also include the solutions to three such exercises.

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**Finite element method - Wikipedia**

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