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To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

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1- The Concept of an  
Element 1.1- The Finite  
Element Method

Physical visualization  
of a body or structure  
as an assemblage of  
building block-like  
elements,  
interconnected at the  
nodal points. 1)

Majority of the  
problems in continuum  
mechanics are too



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complicated to handle exactly.

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analysis of  
nanostructures such as  
nanorods, nanobeams  
and nanoplates.

Examples of nanorods  
and nanobeams  
include carbon and  
boron nanotubes, while  
nanoplates can be  
graphene sheets or  
gold nanoplates. One  
widely promising size-  
dependant continuum  
theory is the nonlocal  
elasticity theory  
pioneered in [12] which  
brings in the

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