

## Finite Element Method as a Solution Procedure for Problems in Tissue Biomechanics

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**Abstract :** Finite element method as a method of providing solutions to problems in computational bio mechanics provides a framework for modeling the function of tissues that integrates structurally from cell to organ system and functionally across the physiological processes that affect tissue mechanics or are regulated by mechanical forces. In this paper, we present an integrative finite element strategy for solution to problems in tissue bio mechanics as a case study.

**Keywords :** finite element, biomechanics, modeling, computational biomechanics

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