

# Finite Element Analysis for Biomedical Engineering Applications

Z. C. Yang

Finite element analysis has been widely applied to study biomedical problems. This book aims to simulate some common medical problems using finite element advanced technologies, which establish a base for medical researchers to conduct further investigations.

## KEY FEATURES

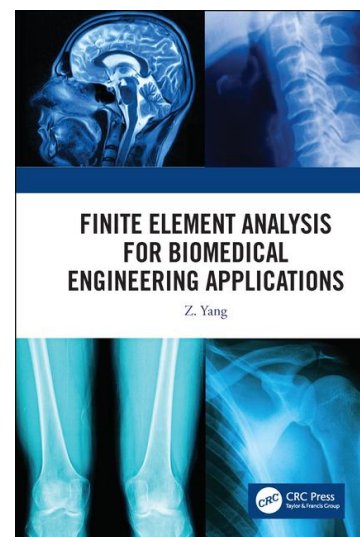
- Details finite element modeling of bone, soft tissues, joints and implants.
- Presents advanced finite element technologies such as fiber enhancement, porous media, wear, and crack growth fatigue analysis.
- Discusses a specific biomedical problems, such as abdominal aortic aneurysm, intervertebral disc, head impact knee contact, and SMA cardiovascular stent.
- Explains principles for modeling biology.
- Provides various descriptive modeling files.

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