



# Methods in Research and Development of Biomedical Devices

*Kelvin K L Wong, Jiyuan Tu, Zhonghua Sun, Don W Dissanayake*

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This book presents a road map for applying the stages in conceptualization, evaluation, and testing of biomedical devices in a systematic order of approach, leading to solutions for medical problems within a well-deserved safety limit. The issues discussed will pave the way for understanding the preliminary concepts used in modern biomedical device engineering, which include medical imaging, computational fluid dynamics, finite element analysis, particle image velocimetry, and rapid prototyping. This book would undoubtedly be of use to biomedical engineers, medical doctors, radiologists, and any other professionals related to the research and development of devices for health care.

## Contents:

- Introduction
- Overview of Biomedical Technologies
- Conceptualisation and Medical Image-Based Modelling
- Medical Imaging and Visualisation
- Treatment of Aneurysms
- Endovascular Stent Grafts
- Nasal Drug Delivery
- Biomedical MEMS Micropump
- Engineering and Production Management for Biomedical Devices

**Readership:** Engineers, doctors and students in the biomedical and biomechanical engineering, and radiology fields.



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