



## Advances in Therapeutic Engineering

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# Advances in Therapeutic Engineering

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Therapeutic Engineering (TE) is a cutting-edge domain in today's era of medical technology research. Through engineering algorithms that provide technological solutions, it aims to elevate the quality of life of disabled individuals. **Advances in Therapeutic Engineering** describes various therapeutic processes and mechanisms currently applied to the field of healthcare in a range of areas, including mobility, communications, hearing, vision, and mental health and cognition.

The book explores research and advances in the areas of hand-eye coordination, motor function, the biomechanics of lower limbs, and treatment of spinal diseases and neural plasticity. It discusses electrical stimulation methodologies for improving human gait. It also examines prosthetic devices and assistive technology, induction heater-based treatment, and inclusive user modelling and simulation. Additional chapters cover automated asthma detection using clinico-spirometric information, computer-aided diagnostic modules for malaria screening, and various data mining techniques that have been developed and successfully implemented in healthcare management. The contributors also examine semantic interoperability issues in e-health systems and clinical decision support systems (CDSSs)

Ranging from prosthetics to sensory substitution and medical robotics, the book will prove enlightening to researchers and practitioners in a host of disciplines who want to understand the recent advances achieved globally in the field of therapeutic engineering.

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