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## Tissue Engineering: Fundamentals and Applications (Hardback)

By Yoshito Ikada

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Hardback. Book Condition: New. 241 x 168 mm. Language:

English . Brand New Book. Tissue engineering is an emerging

interdisciplinary field, occupying a major position in the

regenerative medicine that aims at restoring lost or damaged

tissues and organs with use of cells. Regenerative medicine

includes cellular therapy and tissue engineering. In general, the

former treats patients by cell infusion alone, while tissue

engineering needs biomaterials and growth factors in addition

to cells. Biomaterials function in tissue engineering as the

scaffold or template for cells to proliferate, differentiate, and

produce matrices. This book focuses on the fundamentals

(biomaterials, scaffolds, cell cultures, bioreactors, animal

models etc.), recent animal and human trials, and future

prospects regarding tissue engineering. Almost twenty years

have passed since the advent of the tissue engineering, which

uses cells, scaffolds, and growth factors for regeneration of

neotissues. The number of investigations on tissue engineering

is still increasing tremendously. Nevertheless, it seems likely that

the number of reports describing clinical trials of tissue

engineering will remain very limited. Even the studies that

apply tissue engineering research to large animals have not

been performed yet on a large scale. The major objective of...



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