



Electrospinning for Tissue Regeneration (Woodhead Publishing Series in Biomaterials)

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Electrospinning is a simple and highly versatile method for generating ultrathin fibres with diameters ranging from a few micrometres to tens of nanometres. Although most commonly associated with textile manufacturing, recent research has proved that the electrospinning technology can be used to create organ components and repair damaged tissues. Electrospinning for tissue regeneration provides a comprehensive overview of this innovative approach to tissue repair and regeneration and examines how it is being employed within the biomaterials sector.

The book opens with an introduction to the fundamentals of electrospinning. Chapters go on to discuss polymer chemistry, the electrospinning process, conditions, control and regulatory issues. Part two focuses specifically on electrospinning for tissue regeneration and investigates its uses in bone, cartilage, muscle, tendon, nerve, heart valve, bladder, tracheal, dental and skin tissue regeneration before concluding with a chapter on wound dressings. Part three explores electrospinning for in vitro applications. Chapters discuss cell culture systems for kidney, pancreatic and stem cell research.

With its distinguished editors and international team of expert contributors, Electrospinning for tissue regeneration is a valuable reference tool for those in academia and industry concerned with research and development in the field of tissue repair and regeneration.

- Provides a comprehensive overview of this innovative approach to tissue repair and regeneration covering issues from polymer chemistry to the regulatory process
- Examines employment within the biomaterials sector, reviewing extensive applications in areas such as uses in bone, muscle tendon, heart valve and tissue regeneration
- Explores electrospinning for in vitro applications and discusses cell culture systems for kidney, pancreatic and stem cell research

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Bertha Franke:

A lot of people always spent their free time to vacation or go to the outside with them family or their friend. Are you aware? Many a lot of people spent that they free time just watching TV, or even playing video games all day long. If you want to try to find a new activity that is look different you can read any book. It is really fun for yourself. If you enjoy the book that you read you can spent all day long to reading a book. The book Electrospinning for Tissue Regeneration (Woodhead Publishing Series in Biomaterials) it is very good to read. There are a lot of people who recommended this book. These were enjoying reading this book. Should you did not have enough space bringing this book you can buy often the e-book. You can m0ore easily to read this book out of your smart phone. The price is not too expensive but this book possesses high

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