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Nanofibers of Conjugated Polymers (Hardback)

By A. Sezai Sarac

Pan Stanford Publishing Pte Ltd, Singapore, 2016. Hardback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. Conjugated polymer composites with high dielectric constants are being developed by the electronics industry in response to the need for power-grounded decoupling to secure the integrity of high-speed signals and to reduce electromagnetic interference. Electrically conducting polymers are materials that simultaneously possess the physical and chemical properties of organic polymers and the electronic characteristics of metals. Multifunctional micro- and nanostructures of conjugated polymers, such as of pyrrole, have received great attention in recent years because they can polymerize easily and have high conductivity and good thermal stability. They, however, have some disadvantages such as brittleness and hard processability, which can be overcome by developing their nanocomposites. Nanofiber materials with different dielectric properties can be made from conjugated polymer composites and used in the electronics industry, in sensors and batteries, for electrical stimulation to enhance nerve-regeneration process, and for constructing scaffolds for nerve tissue engineering. Electrospinning is a versatile technique that is used to produce ultrathin continuous fibers with high surface-to-volume and aspect ratios from a variety of materials, including polymers, composites, and ceramics. Conductive materials in fibrillar shape may...

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