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Artificial Tactile Sensing in Biomedical Engineering



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Artificial Tactile Sensing In Biomedical Engineering Mcgraw Hill Biophotonics

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Artificial Tactile Sensing in Biomedical Engineering Siamak Najarian, Javad Dargahi, Ali Abouei Mehrizi, 2009-05-18
Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Master Artificial Tactile Sensing Design for Biomedical Engineering Applications Filled with high quality photographs and illustrations including some in color, this definitive guide details the design and manufacturing of artificial tactile systems and their applications in surgical procedures. Artificial Tactile Sensing in Biomedical Engineering explains the fundamentals of the human sense of touch and the latest techniques for artificially replicating it. The book describes the mechanistic principles of static and dynamic tactile sensors and discusses cutting edge biomedical applications including minimally invasive surgery, tumor detection, robotic surgery, and surgical simulations. Artificial Tactile Sensing in Biomedical Engineering covers: Capacitive, magnetic, inductive, conductive, elastomeric, optical, and thermal sensors; Strain gauge and piezoelectric sensors; Tactile sensing in surgery and palpation; Tactile image information through palpation; Tumor detection via artificial tactile sensing; Estimating tumor parameters using the finite element method and an artificial neural network; Determination of mechanical properties of biological tissues; Tactile sensing in remote and robotic surgery; Haptics application in surgical simulation. *Biomedical Applications of Light Scattering* Adam Wax, Vadim Backman, 2009-09-22 Clinical applications include detecting pre-cancerous and cancerous tissue states, characterizing cell and tissue properties for identifying disease, and assessing the presence and concentration of biochemicals for diagnostic purposes. Part of the McGraw Hill Biophotonics Series. [Optofluidics: Fundamentals, Devices, and Applications](#) Yeshaiahu Fainman, Luke Lee, Demetri Psaltis, Changhui Yang, 2009-09-08 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Cutting Edge Optofluidics: Theories, Techniques, and Practices Add novel functionalities to your optical design projects by incorporating state-of-the-art microfluidic technologies and tools. Co-written by industry experts, Optofluidics: Fundamentals, Devices, and Applications covers the latest functional integration of optical devices and microfluidics as well as automation techniques. This authoritative guide explains how to fabricate optical lab-on-a-chip devices, synthesize photonic crystals, develop solid and liquid core waveguides, use fluidic self-assembly methods, and accomplish direct microfabrication in solutions. The book includes details on developing biological sensors and arrays, handling maskless lithography, designing high-Q cavities, and working with nanoscale plasmonics. Research outcomes from the DARPA-funded Center for Optofluidics Integration are also discussed. Discover how to: Work with optofluidic sources, lenses, filters, switches, and splitters; Use dielectric waveguiding devices to input, move, and manipulate fluids; Integrate colloidal crystals and fibers with microfluidic systems; Develop bio-inspired fluidic lens systems and aspherical lenses; Deploy miniaturized dye lasers, microscopes, biosensors, and resonators; Analyze microfluidic systems using flow injection and

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Armani, Tatevik Chalyan, David Sampson, 2024-05-21 Biophotonics and Biosensing From Fundamental Research to Clinical Trials Through Advances of Signal and Image Processing brings together the knowledge of the basic principles of the field of light biological tissue interaction detection methods data processing techniques and research diagnostic and clinical applications It is suitable for new entrants while also highlighting the latest developments for experts in the field This volume includes perspectives by leading experts from the biophotonics biomedical engineering and data science communities The reader will receive a basic grounding in the key theoretical principles and practical components of biophotonics and biosensing Working principles of devices used in spectroscopy microscopy and optical sensing are presented along with their application domains The reader will learn about existing microscopy based techniques used in biomedical applications for diagnosis and get to know different signal processing algorithms as used in biophotonics Finally through concrete examples including sample preparation and measurement approaches see how the field has developed thanks to the integration of biophotonics and optical biosensing with signal processing Introduces key principles of light biological tissue interactions and biosensing Discusses how the most promising optical diagnostic methods can exploit contemporary signal and image processing algorithms and data analytics Includes examples of clinical studies with detailed descriptions of their implementation along with practical guidance *Biomedical Photonics Handbook, Second Edition* Tuan Vo-Dinh, 2014-07-29

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