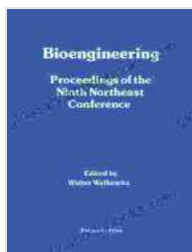


Bioengineering: Proceedings of the Ninth Northeast Conference

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- Biomaterials
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The Ninth Northeast Bioengineering Conference was held in 2006 at the University of Massachusetts, Amherst. The conference brought together over 200 engineers, scientists, and clinicians to discuss the latest advances in bioengineering. This book contains the proceedings of the conference, which include over 100 peer-reviewed papers on a wide range of bioengineering topics.



Bioengineering: Proceedings of the Ninth Northeast Conference by Edward Gaily

★★★★★ 5 out of 5

Language : English

File size : 62331 KB

Screen Reader: Supported

Print length : 432 pages



The conference was organized into eight tracks:

* Biomaterials * Tissue Engineering * Medical Imaging * Drug Delivery *
Biomechanics * Bioelectronics * Bioinformatics * Translational
Bioengineering

The papers in this book represent the cutting-edge research in these areas. They provide a valuable resource for researchers, clinicians, and students in the field of bioengineering.

Biomaterials

Biomaterials are materials that are used to replace or repair damaged or diseased tissues. They must be compatible with the body and must not cause any adverse reactions. Biomaterials are used in a wide range of applications, including:

* Orthopedics * Cardiovascular surgery * Dental surgery * Plastic surgery *
Tissue engineering

The papers in this section of the book cover a wide range of topics related to biomaterials, including:

* The development of new biomaterials * The characterization of
biomaterials * The testing of biomaterials * The clinical use of biomaterials

Tissue Engineering

Tissue engineering is the process of creating new tissues or organs from cells. This is a rapidly growing field, with the potential to revolutionize the treatment of a wide range of diseases and injuries.

The papers in this section of the book cover a wide range of topics related to tissue engineering, including:

* The development of new tissue engineering techniques * The characterization of engineered tissues * The testing of engineered tissues * The clinical use of engineered tissues

Medical Imaging

Medical imaging is the process of creating images of the inside of the body. This is used for a variety of purposes, including:

* Diagnosis * Treatment planning * Monitoring disease progression

The papers in this section of the book cover a wide range of topics related to medical imaging, including:

* The development of new medical imaging techniques * The characterization of medical images * The processing of medical images * The interpretation of medical images

Drug Delivery

Drug delivery is the process of getting drugs to the site of action in the body. This can be a challenging task, as drugs must often be able to cross multiple barriers before reaching their target.

The papers in this section of the book cover a wide range of topics related to drug delivery, including:

* The development of new drug delivery systems * The characterization of drug delivery systems * The testing of drug delivery systems * The clinical use of drug delivery systems

Biomechanics

Biomechanics is the study of the mechanics of the human body. This field is used to understand how the body moves and how to prevent and treat injuries.

The papers in this section of the book cover a wide range of topics related to biomechanics, including:

* The development of new biomechanical models * The characterization of biomechanical properties * The testing of biomechanical systems * The clinical use of biomechanics

Bioelectronics

Bioelectronics is the study of the interaction between electronics and the body. This field is used to develop new medical devices and treatments.

The papers in this section of the book cover a wide range of topics related to bioelectronics, including:

* The development of new bioelectronic devices * The characterization of bioelectronic devices * The testing of bioelectronic devices * The clinical use of bioelectronic devices

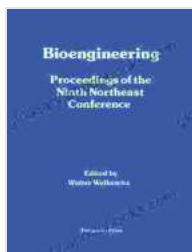
Bioinformatics

Bioinformatics is the use of computers to analyze biological data. This field is used to identify new genes, predict protein function, and develop new drugs and treatments.

The papers in this section of the book cover a wide range of topics related to bioinformatics, including:

* The development of new bioinformatics tools * The application of bioinformatics to medical research * The ethical and societal implications of bioinformatics

The Ninth Northeast Bioengineering Conference was a successful event that brought together over 200 engineers, scientists, and clinicians to discuss the latest advances in bioengineering. This book contains the proceedings of the conference, which include over 100 peer-reviewed papers on a wide range of bioengineering topics. These papers provide a valuable resource for researchers, clinicians, and students in the field of bioengineering.



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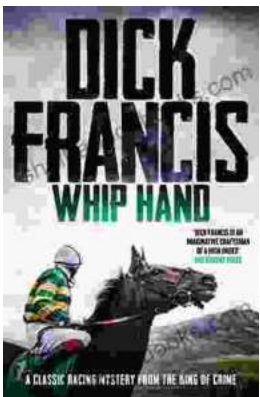
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