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Chemistry can be one of the deciding factors in JEE examination. Most students often rank it as one of the easiest sections. Students can score full marks in this section and stand a chance to improve ...

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Conquering a chemical challenge to control the structure of a polymer opens a path to better biosensors. A new organic (carbon-based) semiconducting material has been developed that outperforms ...

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Conquering a Chemical Challenge Leads to Building a Better Biosensor Polymer

In the nascent years of gene therapy, synthetic DNA-delivery vectors with greater and greater efficacy were reported with regular frequency. However, as the field has matured over the past two decades ...

Polymers for gene delivery across length scales

We are an Analytical Chemistry group performing "X-omics" research at Baylor ... three general questions regarding the (i) types, (ii) concentrations, and (iii) nature of the interactions of all ...

Dr. Touradj Solouki

Derek Lowe, an Arkansan by birth, got his BA from Hendrix College and his PhD in organic chemistry from Duke ... So mRNA-based techniques have a lot of power and a lot of promise.

What mRNA Is Good For, And What It Maybe Isn't

Sir Balasubramanian, an India-born British professor of medicinal chemistry, and Sir Klenerman, a British biophysical chemist ... "Collaboration is an essential part of ensuring positive change ...

Indian-origin chemist among 2020 Millennium Tech Prize winners for revolutionary

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DNA technique

We are pursuing the synthesis of specific compounds for use in several enzymology projects: (i) transition state analogues for insertion into enzyme active sites to probe the role of binding ...

USRA Projects

His pioneering research and systematic developments in the use and preservation of blood plasma during World War II not only saved thousands of ... for long-term blood preservation and storage ...

Charles Richard Drew

6 School of Chemistry and Physics, Queensland University of ... We further show that this reorganization crucially depends on the activity of myosin II molecular motors. In the last part, we emphasize ...

Mechanical stimulation of single cells by reversible host-guest interactions in 3D microscavolds

By Kenneth Chang Ei-ichi Negishi, who shared the Nobel Prize in Chemistry in 2010 for developing techniques ... part of the country, in the northeast. His family moved to Tokyo after World War II ...

Ei-ichi Negishi, Nobel Prize Winner in Chemistry, Dies at 85

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Having studied blood chemistry, fluid replacement, transfusion and storage, Drew became a leading expert on all things to do with blood. As the casualties mounted in Europe during World War II ...

7 scientists who helped change the world

Many of us think we 're doing our part to save the planet by dutifully separating paper ... at the Pritzker School of Molecular Engineering (PME) and the Department of Chemistry, with a joint ...

For a sustainable future, scientists rethink plastics and devices

Looking for something new to watch? You're not alone. Thousands of people are stuck at home right now, riding out this terrible pandemic. Thankfully, many of us are lucky enough to have Netflix to ...

The 49 best Netflix shows to watch right now (July 2021)

Noor proudly mentions that he saw “ Star Trek II: The Wrath of Khan ” in the theater in 1982 ... world scientists are inspired by Star Trek, ” he says, talking at least in part about himself. Thousands ...

Resistance (to science) is futile

Martial arts choreographer Yuen Woo-ping is well-known for his wirework techniques, his skill at choreographing ... Lian-jie in Once Upon a Time In China II

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and directing him in The Tai Chi ...

What Jackie Chan and Yuen Woo-ping's stunt teams brought to the martial arts icons' classic movies

She taught Spanish part time ... forensic science/chemistry at Alvernia University, where she teaches analytical chemistry, instrumental analysis and physical chemistry I & II.

Berks' Best 2021 judges

In the decade since the 2011 Horseshoe II Fire was contained ... By turning soil hydrophobic and altering its chemistry, said Falk, the UA professor, wildfires alter the very "foundation of ...

Three-part series remains the definitive text on the physical properties of biological macromolecules and the physical techniques used to study them. It is appropriate for a broad spectrum of advanced undergraduate and graduate courses and serves as a comprehensive reference for researchers. Part I: The Conformation of Biological Macromolecules 1980, paper, 365 pages, 158 illustrations 0-7167-1188-5 Part II: Techniques for the Study of Biological Structure and Function 1980, paper, 365 pages, 158 illustrations 0-7167-1190-7 Part III: The Behavior of Biological

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Biophysical techniques are used in many key stages of the drug discovery process including in screening for new receptor ligands, in characterising drug mechanisms, and in validating data from biochemical and cellular assays. This book provides an overview of the biophysical methods applied in drug discovery today, including traditional techniques and newer developments. Perspectives from academia and industry across a spectrum of techniques are brought together in a single volume. Small and biotherapeutic approaches are covered and strengths and limitations of each technique are presented. Case studies illustrate the application of each technique in real applied examples. Finally, the book covers recent developments in areas such as electron microscopy with discussions of their possible impact on future drug discovery. This is a go-to volume for biophysicists, analytical chemists and medicinal chemists providing a broad overview of techniques of contemporary interest in drug discovery.

This updated and up-to-date version of the first edition continues with the really interesting stuff to spice up a standard biophysics and biophysical chemistry course.

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All relevant methods used in current cutting edge research including such recent developments as super-resolution microscopy and next-generation DNA sequencing techniques, as well as industrial applications, are explained. The text has been developed from a graduate course taught by the author for several years, and by presenting a mix of basic theory and real-life examples, he closes the gap between theory and experiment. The first part, on basic biophysical chemistry, surveys fundamental and spectroscopic techniques as well as biomolecular properties that represent the modern standard and are also the basis for the more sophisticated technologies discussed later in the book. The second part covers the latest bioanalytical techniques such as the mentioned super-resolution and next generation sequencing methods, confocal fluorescence microscopy, light sheet microscopy, two-photon microscopy and ultrafast spectroscopy, single molecule optical, electrical and force measurements, fluorescence correlation spectroscopy, optical tweezers, quantum dots and DNA origami techniques. Both the text and illustrations have been prepared in a clear and accessible style, with extended and updated exercises (and their solutions) accompanying each chapter. Readers with a basic understanding of biochemistry and/or biophysics will quickly gain an overview of cutting edge technology for the biophysical analysis of proteins, nucleic acids and other biomolecules and their interactions. Equally, any student contemplating a career in the chemical, pharmaceutical or bio-industry will greatly benefit from the technological knowledge presented. Questions of differing complexity testing the reader's understanding can be found at the end of each chapter with clearly described

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solutions available on the Wiley-VCH textbook homepage under: www.wiley-vch.de/textbooks

Biophysical Techniques explains in a readily-accessible way the basics of the various biophysical methods available so students can understand the principles behind the different methods used, and begin to appreciate which tools can be used to probe different biological questions, and the pros and cons of each.

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