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a complete examination of the uses of the atomic force microscope in biology and medicine this cutting edge text written by

a team of leading experts is the first detailed examination of the latest most powerful scanning probe microscope the atomic force microscope afm using the afm in combination with conventional tools and techniques readers gain a profound understanding of the cell subcellular organelles and biomolecular structure and function the text begins with three chapters describing the molecular machinery and mechanism of cell secretion and membrane fusion in cells using approaches that combine afm electron microscopy x ray diffraction photon correlation spectroscopy molecular biology biochemistry and electrophysiology the discovery of a new cellular structure the porosome or fusion pore the cells secretory machinery the molecular mechanism of membrane fusion in cells and the expulsion of intravesicular contents during cell secretion are outlined in the first three chapters the book also covers identification of the porosome in the growth hormone secreting cell of the pituitary gland probing the structural and physical properties of microbial cell surfaces scanning probe microscopic characterization of the higher plant cell wall and its components case studies of nano drug delivery systems using engineered dendrimers afm techniques for studying living cells investigating the intermolecular forces of leukocyte adhesion molecules protein protein interactions micromechanical properties of lipid bilayers and vesicles the text concludes with four chapters that examine new and emerging approaches in the use of force microscopy in biology and medicine this text is ideal for advanced undergraduate and graduate students and researchers in cell and molecular biology genetics genomics physiology neuroscience biophysics and biochemistry not only does it provide the theory but also practical considerations such as the selection of the right tools and approach

tooth enamel frontiers in mineral chemistry and biochemistry integrative cell biology and genetics incorporates the proceedings of the 9th international enamel symposium enamel 9 hosted in the uk and chaired by professor jennifer kirkham and professor ariane berdal the topic covers cellular and molecular aspects of the development pathology evolution and repair or regeneration of dental enamel the original research papers and reviews will be of interest to all enamel and biomineralization researchers clinicians will find up to date thinking and opinion on the aetiology of enamel pathologies and their potential future treatment via novel strategies for preventing repairing and regenerating enamel

touted as the new darling of the chemical industry alkyl polyglycosides are gaining in popularity due to the fact that they are readily biodegradable low toxic and made from renewable resources sugar based surfactants compiles the most recent and relevant aspects of sugar based surfactants including self association phase behavior and interfacial properties focusing on both colloidal and interfacial science the book deals with the adsorption of surfactants in both the air liquid and solid liquid

interfaces it also covers new advances in surfactant science such as the development of a family of potent surface active agents that are non toxic and thus usable in ubiquitous consumer products

liposomes are cellular structures made up of lipid molecules which are water insoluble organic molecules and the basis of biological membranes important as a cellular model in the study of basic biology liposomes are also used in clinical applications such as drug delivery and virus studies liposomes part f is a continuation of previous mie liposome volumes a through e one of the most highly respected publications in the field of biochemistry since 1955 frequently consulted and praised by researchers and reviewers alike truly an essential publication for anyone in any field of the life sciences

liposome technology volume i liposome preparation and related techniques third edition is a thoroughly updated and expanded new edition of a classic text in the field including step by step technical details volume i illustrates numerous methods for liposome preparation and auxiliary techniques necessary for the stabilization and characteriza

this best selling atlas contains over 900 images and illustrations to help you learn and review the microstructure of human tissues the book starts with a section on general cell structure and replication basic tissue types are covered in the following section and the third section presents the microstructures of each of the major body systems the highest quality color light micrographs and electron micrograph images are accompanied by concise text and captions which explain the appearance function and clinical significance of each image the accompanying website lets you view all the images from the atlas with a virtual microscope allowing you to view the image at a variety of pre set magnifications utilizes virtual microscope function on the website allowing you to see images first in low powered and then in high powered magnification incorporates new information on histology of bone marrow male reproductive system respiratory system pancreas blood cartilage muscle types staining methods and more uses color coding at the side of each page to make it easier to access information quickly and efficiently includes access to studentconsult com an interactive community center with a wealth of additional resources

karp continues to help biologists make important connections between key concepts and experimentation the sixth edition explores core concepts in considerable depth and presents experimental detail when it helps to explain and reinforce the concepts the majority of discussions have been modified to reflect the latest changes in the field the book also builds on its strong illustration program by opening each chapter with vip art that serves as a visual summary for the chapter over 60 new micrographs and computer derived images have been added to enhance the material biologists benefit from these changes

as they build their skills in making the connection

take a simple approach to understanding the fundamentals with wheater s functional histology offering concise text accompanied by hundreds of captions and images of histology slides this best selling textbook will equip you with all the must know histology information you need to complete your courses and ace your exams all print purchasers receive the complete downloadable ebook via student consult which now includes an all new bank of multiple choice questions to test your understanding and aid exam preparation recognize the microscopic structure of normal human tissues and how it relates to function with the help of over 900 high quality histology images and illustrations master how to apply histology in a clinical context through coverage of common clinical conditions in each chapter access the entire contents online at student consult including all of the images a virtual histolab and usmle style self assessment questions and rationales gain a rich understanding of histology through simple concise text and captions that are thoroughly updated with the most recent research and new discoveries all print purchasers receive the complete downloadable ebook via student consult which now includes an all new bank of multiple choice questions to test your understanding and aid exam preparation

vols for 1968 77 include the proceedings of the annual scanning electron microscope symposium sponsored by the iit research institute and other workshops

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