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The surface mode and nano-imaging effect of the photonic crystal are experimentally studied with a scanning near- fi eld optical microscope. The thickness and the wavelength dependence of the full width at half maximum of the focal spot reveal a direct evidence of the surface-mode enhanced nano-imaging effect, which is consistent with the ...

Surface-mode enhanced photonic-crystal nano-imaging ...

The surface mode and nano-imaging effect of the photonic crystal are experimentally studied with a scanning near-field optical microscope. The thickness and the wavelength dependence of the full width at half maximum of the focal spot reveal a direct evidence of the surface-mode enhanced nano-imaging effect, which is consistent with the simulation.

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3-Dimensional photonic crystal surface enhanced upconversion emission for improved near-infrared photoreponse † Wenbin Niu , a Llap Tat Su , a Rui Chen , b Hu Chen , a Yi Wang , c Alagappan Palaniappan , c Handong Sun b and Alfred ling Yoong Tok * a

3-Dimensional photonic crystal surface enhanced ...

A form of microscopy that utilizes a photonic crystal biosensor surface as a substrate for cell attachment enables label-free, quantitative, submicron resolution, time-resolved imaging of cell – surface interactions without cytotoxic staining agents or temporally-unstable fluorophores. Other forms of microscopy do not provide this direct measurement of live cell – surface attachment ...

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A series of nanocomposites based on polyamide (NL16, PA) filter membranes containing metal nanoparticles (NPs) have been prepared by filtration under reduced pressure of the metal colloids. The ensuing materials were then investigated as substrates for surface-enhanced Raman scattering (SERS) imaging studies envisaging the spectroscopic detection of vestigial organic pollutants dissolved in ...

Surface-Enhanced Raman Scattering Spectral Imaging for the ...

The ensuing materials were then investigated as substrates for surface-enhanced Raman scattering (SERS) imaging studies envisaging the spectroscopic detection of vestigial organic pollutants dissolved in contaminated water. The organic dye crystal violet (CV) was used here as a model pollutant because it is a hazardous compound present in ...

This book takes an in depth look at a novel methodology for analyzing Global Positioning System (GPS) data to obtain the highest possible resolution surface imaging of tectonic deformation sources without prescribing the nature of either the sources or the subsurface medium. GPS methods are widely used to track the surface expression of crustal deformation at tectonic plate boundaries, and are typically expressed in terms of velocity fields or strain rate fields. Vertical derivatives of horizontal stress (VDoHS) rates at the Earth ' s surface can also be derived from GPS velocities, and VDoHS rates provide much higher resolution information about subsurface deformation sources than velocities or strain rates. In particular, VDoHS rates allow for high precision estimates of fault dips, slip rates and locking depths, as well as objective characterization of previously unknown (or hidden) tectonic deformation zones.

Now enhanced by new end-of-chapter material in the MindTap online homework system, this new Hybrid version of Mike Seeds', Dana Backman's, and Michele Montgomery's best-selling HORIZONS: EXPLORING THE UNIVERSE, Enhanced Thirteenth Edition, engages students by focusing on two central questions: How Do We Know? which emphasizes the role of evidence in the scientific process, providing insights into how science works; and What Are We? which highlights our place as planet dwellers in an evolving universe, guiding students to ask questions about where we came from and how we formed a perspective that the study of astronomy is uniquely positioned to emphasize. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book summarizes our present understanding of the formation of passive continental margins and their ocean-continent transitions. It outlines the geological, geophysical and petrological observations that characterize extensional systems, and how such observations can guide and constrain dynamic and kinematic models of continental lithosphere extension, break-up and the inception of organized seafloor spreading. The book focuses on imaging, mapping and modelling lithospheric extensional systems, at both the regional scale using dynamic models to the local scale of individual basins using kinematic models, with an emphasis on capturing the extensional history of the Iberia and Newfoundland margins. The results from a number of other extensional regimes are presented to provide comparisons with the North Atlantic studies; these range from the Tethyan realm and the northern Red Sea to the western and southern Australian margins, the Basin and Range Province, and the Woodlark basin of Papua New Guinea. All of these field studies, combined with lessons learnt from the modelling, are used to address fundamental questions about the extreme deformation of continental lithosphere.

Battered fried foods consistently remain in high demand despite concerns about their health aspects, prompting food processors to develop new methods and alternative oils and batters in the name of healthy, tasty fried foods and high-performance, cost-effective frying oil. With contributions from an international panel of food technology authorities, Advances in Deep-Fat Frying of Foods provides straightforward background on the engineering aspects of deep-fat frying, discusses flavor acquisition during frying, and delineates novel frying technologies employed to make fried foods healthier. With the aid of numerous tables and illustrations, this concise reference examines changes in fried products both at the macroscopic and microscopic levels. It reviews heat and mass transfer and variations found in the physical properties of food during frying. The book discusses information about the rheological properties of batters and the effects of batters on product quality in addition to alternative techniques such as microwaves and vacuum frying used to improve the nutritional aspects of fried foods. The text also covers the formation of acrylamide – a potential carcinogen formed during frying – collects existing literature on this newly discovered health risk, and considers how to reduce it. As long as they are in demand, food processors will continue to produce fried foods. Advances in Deep-Fat Frying of Foods demonstrates how to keep up with demand while ideally making fried foods healthier, tastier, and economically more viable.

Food products are complex in nature which makes their analysis difficult. Different scientific disciplines such as biochemistry, microbiology, and nutrition, together with engineering concepts are involved in their characterization. However, imaging of food materials and data analysis has gained more importance due to innovations in the food industry, as well as the emergence of food nanotechnology. Image analysis protocols and techniques can be used in food structure analysis and process monitoring. Therefore, food structure imaging is crucial for various sections of the food chain starting from the raw material to the end product. This book provides information on imaging techniques such as electron microscopy, laser microscopy, X-ray tomography, raman and infrared imaging, together with data analysis protocols. It addresses the most recent advances in imaging technologies and data analysis of grains, liquid food systems (i.e. emulsions and gels), semi-solid and solid foams (i.e. bakery products, dough, expanded snacks), protein films, fruits and vegetable confectionery and nuts. This book also: Provides in-depth view of raw material characterization and process control Covers structure-functionality and structure-texture relationships Reviews applications to emerging areas of food science with an insight into future trends

A rigorous introduction to magnetotelluric imaging of Earth's electrical conductivity and structure, for researchers, advanced students and industrial practitioners.

Shows that developments in seismic interferometry - the methodology of generating new seismic responses by crosscorrelation - have taken an enormous flight since the beginning of this century. In 2006, the editors of this volume compiled a supplement to Geophysics dedicated to this new branch of science. The 22 papers of the well-received supplement (recognized by one award for best paper and two honorable mentions for best paper in Geophysics and more than 100 citations in the first 20 months) form the basis for this reprint volume. The editors have added 50 papers from SEG and other journals, including Science, Physical Review, and Geophysical Research Letters. The book contains an editors' introduction with extensive references and chapters on seismic interferometry without equations, highlights of the history of seismic interferometry from 1968 until 2003, and a more detailed overview of the rapid developments since 2004. Seismic Interferometry is an invaluable source for researchers and students interested in the theory and applications of interferometry in geophysical exploration (seismic and EM), seismology, ultrasonics, and underwater acoustics.

Fascinating, engaging, and extremely visual, this Enhanced Thirteenth Edition of FOUNDATIONS OF ASTRONOMY brings readers up-to-date on the developments and discoveries in the exciting field of astronomy as recent as the summer 2015 New Horizons studies of Pluto and its moons. Throughout the book, authors Michael Seeds and Dana Backman emphasize the scientific method as they guide students to answer two fundamental questions: What are we? And how do we know? In every chapter, the book discusses the interplay between evidence and hypothesis, providing both factual information and a conceptual framework for understanding the logic of science. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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