



## New Approaches in Biomedical Spectroscopy (Hardback)

By Katrin Kneipp, Ricardo Aroca, Harald Kneipp

Oxford University Press Inc, United States, 2007. Hardback. Condition: New. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. Developing innovative efficient and sensitive spectroscopic and optical techniques for studying biomedically relevant molecules, structures and processes in vitro and in vivo is a field of rapidly growing interest. This symposium book covers novel and exciting approaches in biomedical spectroscopy. Several chapters deal with infrared and Raman spectroscopy. These complimentary vibrational spectroscopic techniques are capable of monitoring molecular structures as well as structural changes. Such studies are of interest for understanding diseases at a molecular level as well as for developing techniques for efficient early diagnosis based on molecular structural information. The chapters demonstrate also applications vibrational spectroscopy in proteomics and the characterization of micro organisms. The second section of the book introduces surface enhanced Raman scattering (SERS), demonstrates the application of the effect in the biomedical field and develops the concept of multifunctional nanosensors. The measurement of intrinsic optical signals from biological objects such as nerve tissue are discussed in the next section of the book. Chapters deal also with Coherent anti-Stokes Raman...



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