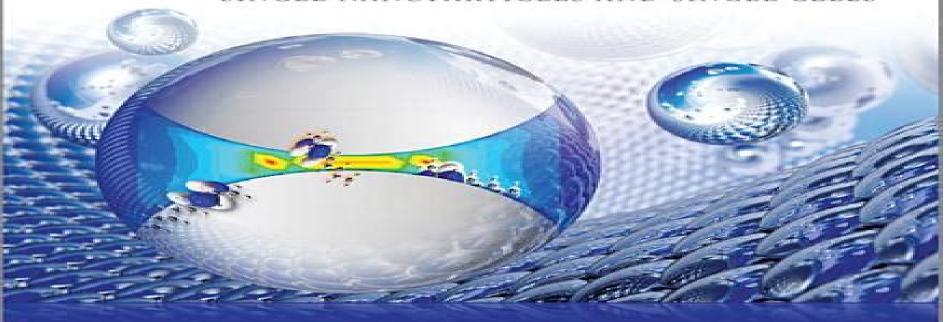
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mechanism of SERS It covers first generation plasmonic nanomaterials second generation plasmonic hot spots third generation via plasmonic engineering substrate nanomaterials that are developed for SERS single molecule SERS and designed SERS probes for ultrasensitive detection applications It further discusses different SERS detection platforms highlight the issues of poor signal reproducibility and how to minimize it Features Provides understanding on the role of electromagnetic hot spots in surface enhanced Raman Spectroscopy Reviews all types of surface enhanced Raman Spectroscopy substrates Covers surface enhanced Raman Spectroscopy based detection platforms and signal reproducibility issues Includes development of single molecule detection via surface enhanced Raman Spectroscopy Discusses chemical analysis biomedical application and all other related applications This book is aimed at graduate students and researchers in spectroscopy materials science and engineering Surface Enhanced Raman Spectroscopy for Biophysical Applications Claudia Fasolato, 2018-12-05 The book explores the phenomenon of surface enhanced Raman scattering SERS the huge amplification of Raman signal from molecules in the proximity of a metallic nanostructured surface allowing readers to gain an in depth understanding of the mechanisms affecting the spectroscopic response of SERS active systems for effective applications SERS spectroscopy is an ultrasensitive analytical technique with great potential for applications in the field of biophysics and nanomedicine As examples the author presents the design of nanocolloid based SERS active substrates for molecular sensing and of a folate based SERS active nanosensor capable of selectively interacting with cancer cells enabling cancer diagnostics and therapy at the single cell level The author also suggests novel paths for the systematization of the SERS nanosystem design and experimental protocols to maximize sensitivity and reproducibility which is essential when real world biomedical applications are the goal of the study With a combined approach both fundamental and applied and a detailed analysis of the state of the art this book provides a valuable overview both for students new to SERS spectroscopy Probing Single Molecules and Single Nanoparticles by Surface-enhanced Raman and for experts in the field **Scattering** Steven R. Emory, 1999 Experimental Biology and Medicine **Chemical Engineering Progress** ,2007 ,2007 Mechanisms and Applications of Single-nanoparticle Surface-enhanced Raman Scattering William E. Doering, 2003 Surface-Enhanced Raman Scattering Katrin Kneipp, Martin Moskovits, Harald Kneipp, 2006-06-21 Almost 30 years after the first reports on surface enhanced Raman signals the phenomenon of surface enhanced Raman scattering SERS is now well established Yet explaining the enhancement of a spectroscopic signal by fouteen orders of magnitude continues to attract the attention of physicists and chemists alike And at the same time and rapidly growing SERS is becoming a very useful spectroscopic tool with exciting applications in many fields SERS gained particular interest after single molecule Raman spectroscopy had been demonstrated This bookl summarizes and discusses present theoretical approaches that explain the phenomenon of SERS and reports on new and exciting experiments and applications of the **Conductance and Surface-enhanced Raman Scattering of Single Molecules** fascinating spectroscopic effect

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