



Coherent Raman Scattering Microscopy (Series in Cellular and Clinical Imaging)

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The First Book on CRS Microscopy

Compared to conventional Raman microscopy, coherent Raman scattering (CRS) allows label-free imaging of living cells and tissues at video rate by enhancing the weak Raman signal through nonlinear excitation. Edited by pioneers in the field and with contributions from a distinguished team of experts, **Coherent Raman Scattering Microscopy** explains how CRS can be used to obtain a point-by-point chemical map of live cells and tissues.

In color throughout, the book starts by establishing the foundation of CRS microscopy. It discusses the principles of nonlinear optical spectroscopy, particularly coherent Raman spectroscopy, and presents the theories of contrast mechanisms pertinent to CRS microscopy. The text then provides important technical aspects of CRS microscopy, including microscope construction, detection schemes, and data analyses. It concludes with a survey of applications that demonstrate how CRS microscopy has become a valuable tool in biomedicine.

Due to its label-free, noninvasive examinations of living cells and organisms, CRS microscopy has opened up exciting prospects in biology and medicine—from the mapping of 3D distributions of small drug molecules to identifying tumors in tissues. An in-depth exploration of the theories, technology, and applications, this book shows how CRS microscopy has impacted human health and will deepen our understanding of life processes in the future.

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