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Sommario/riassunto

This book, coordinated by Corinne Fournier and Olivier Haeberlé, provides a comprehensive exploration of optical imaging technologies and their applications in biological sciences. It covers advanced topics such as quantitative phase microscopy, holography, and inverse problem-solving in imaging. The book is structured to guide readers through the principles and techniques used in phase imaging, holographic configurations, and the application of these technologies in biological research, including high-contrast imaging and dry mass measurement in living cells. Aimed at researchers and professionals in biology and optical imaging, this work offers insights into the latest developments and practical applications of optical imaging techniques.