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Nota di contenuto	Photonics; Contents; List of Contributors; Preface; 1 Fluorescence; 1.1 Introduction; 1.2 Spectra; 1.2.1 Background and Theory; 1.2.2 Experimental; 1.2.3 Application Example-Melanin Spectra; 1.3 Quantum Yield; 1.3.1 Theory; 1.3.2 Experimental; 1.3.3 Application Example-ThT Detection of Sheet Structure; 1.4 Lifetime; 1.4.1 Theory; 1.4.2 Experimental; 1.4.3 Application Example-In Vivo Glucose Sensing; 1.5 Quenching; 1.5.1 Theory; 1.5.2 Application-Metal Ion Quenching; 1.6 Anisotropy; 1.6.1 Theory; 1.6.2 Experimental; 1.6.3 Application Example-Nanoparticle Metrology; 1.7 Microscopy 1.7.1 Systems and Techniques 1.7.2 Application Example-Gold Nanorods in Cells; 1.8 Conclusions; Acknowledgments; 2 Single-Molecule Detection and Spectroscopy; 2.1 Introduction; 2.2 Experimental Setups; 2.2.1 Principles; 2.2.2 Correction of Aberrations; 2.2.3 Polarization Structure at the Focus; 2.2.4 Various Microscopy

Methods; 2.3 Fluorescence Spectroscopy; 2.3.1 Introduction, Signal-to-Noise Ratio; 2.3.2 Sample Preparation; 2.3.3 Orientation; 2.3.4 Blinking; 2.3.5 Bleaching; 2.3.6 Superresolution; 2.4 Fluorescence Correlation Spectroscopy; 2.4.1 Photon Counting Histograms, Burst Analysis
2.4.2 Fluorescence Correlation Spectroscopy 2.4.3 Multiparameter Analysis; 2.5 Fluorescence Excitation Spectroscopy; 2.5.1 Zero-Phonon Line and Phonon Wing; 2.5.2 Inhomogeneous Broadening; 2.5.3 Hole-Burning [30]; 2.5.4 Single-Molecule Spectroscopy; 2.5.5 Scope of Low-Temperature Single-Molecule Spectroscopy; 2.6 Other Detection Methods; 2.6.1 General Considerations on Signal, Background, and Noise; 2.6.2 Dark-Field Scattering, Total Internal Reflection; 2.6.3 Absorption, Extinction, Interference-Based Methods; 2.6.4 Pump-Probe and Photothermal Detections; 2.7 Conclusion; Acknowledgments References 3 Resonance Energy Transfer; 3.1 Introduction; 3.2 History of RET; 3.2.1 The First Experiments; 3.2.2 Early Developments of Theory; 3.2.3 Forster Theory; 3.3 The Photophysics of RET; 3.3.1 Primary Excitation Processes; 3.3.2 Coupling of Electronic Transitions; 3.3.3 Dissipation and Line Broadening; 3.3.4 Forster Equation; 3.3.5 Orientation Dependence; 3.3.6 Polarization Features; 3.3.7 Diffusion Effects; 3.3.8 Long-Range Transfer; 3.3.9 Dexter Transfer; 3.4 Investigative Applications of RET in Molecular Biology; 3.4.1 Spectroscopic Ruler; 3.4.2 Conformational Change
3.4.3 Intensity-Based Imaging 3.4.4 Lifetime-Based Imaging; 3.4.5 Other Applications; 3.5 The Role of RET in Light-Harvesting Complexes; 3.5.1 Introduction; 3.5.2 Photosynthetic Excitons; Acknowledgments; References; 4 Biophotonics of Photosynthesis; 4.1 Introduction; 4.2 Structure of Pigment-Protein Complexes and Structure-Function Relationships; 4.2.1 Photosystem I (PS I) and Photosystem II (PS II); 4.2.2 PCs of Purple Bacteria; 4.3 Key Concepts in Physics of Pigment-Protein Complexes; 4.3.1 Excitons; 4.3.2 Excitation Energy Transfer
4.3.3 Homogeneous and In homogeneous Broadening, Zero-Phonon Lines (ZPLs), and Phonon Sidebands (PSBs)

Sommario/riassunto

Comprehensive and accessible coverage of the whole of modern photonics Emphasizes processes and applications that specifically exploit photon attributes of light Deals with the rapidly advancing area of modern optics