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Nota di contenuto	Introduction -- ESR measurements of nanoparticles and their interaction with blood -- ESR applications in the study of parasitic disease -- Measurement of oxidative stress using ESR spectroscopy -- Radiation sterilization of pharmaceuticals and ESR studies -- Cancer Diagnosis and monitoring using ESR spectroscopy -- Applications of ESR in the study of neurological disease -- ESR spectroscopy for skin and hair research -- Low frequency ESR dosimetry of teeth.
Sommario/riassunto	This book examines various applications of electron spin resonance spectroscopy (ESR) in medicine, covering topics such as interactions between blood and nanoparticles, physical intricacy of HbNO complexes, parasitic diseases, oxidative stress measurement, polymerization of resinous materials used in dentistry, tooth dosimetry and dermatological applications. Instead of providing mathematical details, it focuses on the applications and data interpretation of ESR as an emerging tool. This book is intended for students and researchers interested in the field of ESR applications in translational research and medicine.