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Metal Oxides for Biomedical and Biosensor Applications gives an in-depth overview of the emerging research in the biomedical and biosensing applications of metal oxides, including optimization of their surface and bulk properties. Sections cover biomedical applications of metal oxides for use in cell cultures, antibacterial and antimicrobial treatments, dental applications, drug delivery, cancer therapy, immunotherapy, photothermal therapy, tissue engineering, and metal oxide-based biosensor development. As advanced and biofunctionalized nano/micro structured metal oxides are finding applications in microfluidics, optical sensors, electrochemical sensors, DNA-based biosensing, imaging, diagnosis and analysis, this book provides a comprehensive update on the topic. Additional sections cover research challenges, technology limitations, and future trends in metal oxides and their composites regarding their usage in biomedical applications.