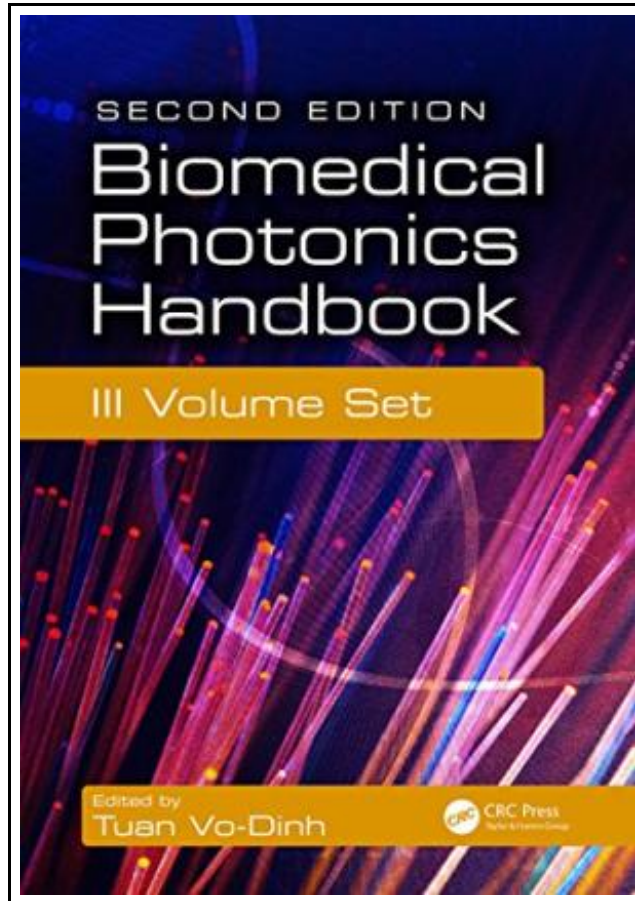


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Taylor Francis Inc, United States, 2014. Hardback. Book Condition: New. 2nd Revised edition. 264 x 185 mm. Language: English . Brand New Book. Shaped by Quantum Theory, Technology, and the Genomics Revolution The integration of photonics, electronics, biomaterials, and nanotechnology holds great promise for the future of medicine. This topic has recently experienced an explosive growth due to the noninvasive or minimally invasive nature and the cost-effectiveness of photonic modalities in medical diagnostics and therapy. The second edition of the Biomedical Photonics Handbook presents fundamental developments as well as important applications of biomedical photonics of interest to scientists, engineers, manufacturers, teachers, students, and clinical providers. Represents the Collective Work of over 150 Scientists, Engineers, and Clinicians Designed to display the most recent advances in instrumentation and methods, as well as clinical applications in important areas of biomedical photonics to a broad audience, this three-volume handbook provides an inclusive forum that serves as an authoritative reference source for a broad audience involved in the research, teaching, learning, and practice of medical technologies. What s New in This Edition: A wide variety of photonic biochemical sensing technologies have already been developed for clinical monitoring of physiological parameters, such as blood pressure, blood chemistry, pH, temperature, and the presence of pathological organisms or biochemical species of clinical importance. Advanced photonic detection technologies integrating the latest knowledge of genomics, proteomics and metabolomics allow sensing of early disease state biomarkers, thus revolutionizing the medicine of the future. Nanobiotechnology has opened new possibilities for detection of biomarkers of disease, imaging single molecules and in situ diagnostics at the single cell level. In addition to these state-of-the art advancements, the second edition contains new topics and chapters including: \* Fiber Optic Probe Design \* Laser and Optical Radiation Safety \* Photothermal Detection \* Multidimensional Fluorescence Imaging \*...



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