



Intermediate Physics for Medicine and Biology: 2015 (5th Revised edition)

By Russell K. Hobbie, Bradley J. Roth

Birkhauser Verlag AG. Hardback. Book Condition: new. BRAND NEW, Intermediate Physics for Medicine and Biology: 2015 (5th Revised edition), Russell K. Hobbie, Bradley J. Roth, This classic text has been used in over 20 countries by advanced undergraduate and beginning graduate students in biophysics, physiology, medical physics, neuroscience, and biomedical engineering. It bridges the gap between an introductory physics course and the application of physics to the life and biomedical sciences. Extensively revised and updated, the fifth edition incorporates new developments at the interface between physics and biomedicine. New coverage includes cyclotrons, photodynamic therapy, color vision, x-ray crystallography, the electron microscope, cochlear implants, deep brain stimulation, nanomedicine, and other topics highlighted in the National Research Council report BIO2010. As with the previous edition, the first half of the text is primarily biological physics, emphasizing the use of ideas from physics to understand biology and physiology, and the second half is primarily medical physics, describing the use of physics in medicine for diagnosis (mainly imaging) and therapy. Among the many topics carried forward are thorough treatments of forces in the skeletal system, fluid flow, the logistic equation, scaling, equilibrium in statistical mechanics, the chemical potential and free energy, transport, membranes and...



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