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## Microdosimetric Response of Physical and Biological Systems to Low and High Let Radiations: Theory and Applications to Dosimetry (Hardback)

By -

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2006.  
 Hardback. Book Condition: New. 240 x 170 mm. Language: English . Brand New Book. One of the aims of this book was to focus the attention of specialists to the diversity of the effects of the ionising radiation on biological and physical systems. Special emphasis has been placed on the exquisite complexities/differences introduced by high ionisation density versus low ionisation density irradiation in both biological and physical systems (Scholz - Chapter 1, Horowitz - Chapter 2, Olko - Chapter 3). As well we wanted to point out the need for novel experimental and theoretical approaches required to advance the important fields of micro and nanodosimetry. Important first steps have already been taken, for example, the accelerated application of semiconductor detectors in their various forms to microdosimetry and as well to practical, important applications in the radiation dosimetry of oncological procedures (Rosenfeld - Chapter 6). The vast number of applications of TLD to radiation dosimetry are not neglected; a special chapter is devoted to the application of TLDs to medical dosimetry applications (Mobit and Kron - Chapter 7) as well as a tutorial approach in an additional chapter to the cavity theories required to extrapolate...



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