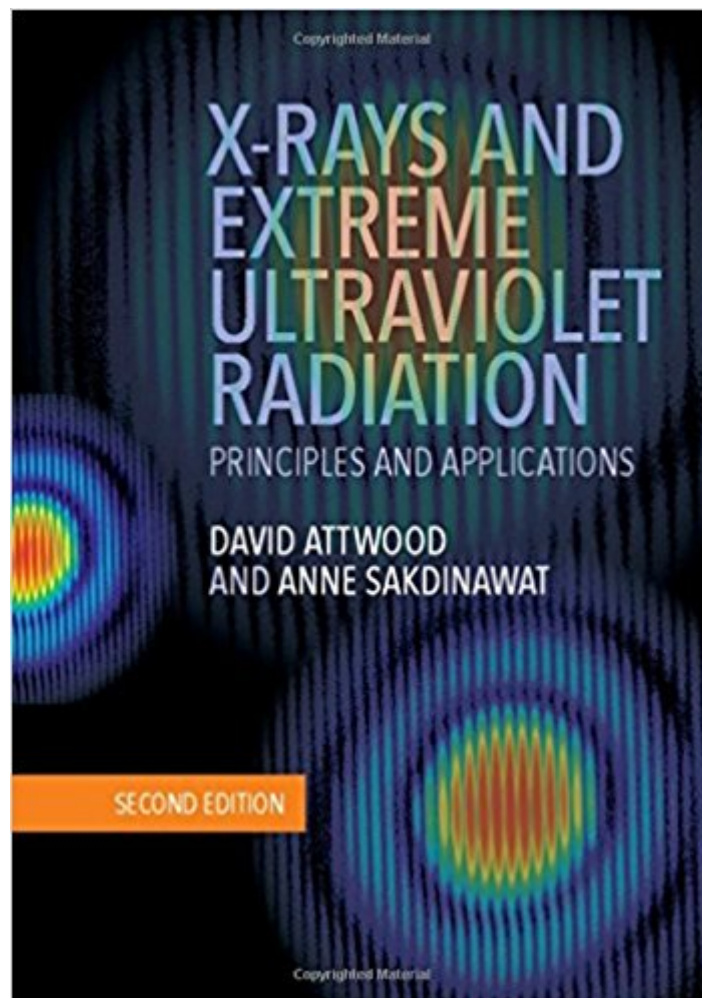




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X-Rays And Extreme Ultraviolet Radiation: Principles And Applications



Synopsis

With this fully updated second edition, readers will gain a detailed understanding of the physics and applications of modern X-ray and EUV radiation sources. Taking into account the most recent improvements in capabilities, coverage is expanded to include new chapters on free electron lasers (FELs), laser high harmonic generation (HHG), X-ray and EUV optics, and nanoscale imaging; a completely revised chapter on spatial and temporal coherence; and extensive discussion of the generation and applications of femtosecond and attosecond techniques. Readers will be guided step by step through the mathematics of each topic, with over 300 figures, 50 reference tables and 600 equations enabling easy understanding of key concepts. Homework problems, a solutions manual for instructors, and links to YouTube lectures accompany the book online. This is the 'go-to' guide for graduate students, researchers and industry practitioners interested in X-ray and EUV interaction with matter.

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'A very clear, comprehensive and updated presentation of the basic physical properties and applications of XUV and X-ray radiation. I highly recommend the book for graduate students and anyone working in this fast growing field of research.' Claudio Pellegrini, University of California, Los Angeles, SLAC

Master the physics and understand the current applications of modern X-ray and EUV sources with

this comprehensive yet mathematically accessible guide. This second edition includes entirely new material on free electron lasers, laser high harmonic generation, X-ray and EUV optics, nanoscale imaging, and femtosecond and attosecond techniques.

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