



# Fundamentals of Radiation Materials Science: Metals and Alloys

*Gary S. Was*

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# Fundamentals of Radiation Materials Science: Metals and Alloys

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**Fundamentals of Radiation Materials Science: Metals and Alloys** Gary S. Was

This book is an eye-opening treatise on the fundamentals of the effects of radiation on metals and alloys. When energetic particles strike a solid, numerous processes occur that can change the physical and mechanical properties of the material. Metals and alloys represent an important class of materials that are subject to intense radiation fields. Radiation causes metals and alloys to swell, distort, blister, harden, soften and deform. This textbook and reference covers the basics of particle-atom interaction for a range of particle types, the amount and spatial extent of the resulting radiation damage, the physical effects of irradiation and the changes in mechanical behavior of irradiated metals and alloys.

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