



# **RADIATION-INDUCED VOIDS IN METALS**

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# Radiation Induced Voids In Metals

**Marcel A. Müller**



## **Radiation Induced Voids In Metals:**

**Radiation-induced Voids in Metals** James W. Corbett, Louis C. Ianniello, 1972 RADIATION-INDUCED VOIDS IN METALS James W. Corbett, Louis C. Ianniello, 1972 *RADIATION-INDUCED VOIDS IN METALS. Proceedings of the 1971 International Conference Held at Albany, New York, June 9--11, 1971*, 1972 Radiation-induced Voids in Metals J.W. Corbett, 1972 **RADIATION-INDUCED VOIDS IN METALS. Proceedings of the 1971 International Conference Held at Albany, New York, June 9--11, 1971**, 1972 **Radiation-induced Voids in Metals** James W. Corbett, 1972 *INTERNATIONAL CONFERENCE ON RADIATION-INDUCED VOIDS IN METALS, ALBANY, N.Y., 9-11 JUN. 1971* J.W. CORBETT, L.C. IANNIELLO, 1972 Radiation-induced Voids in Metals, 1972 RADIATION-INDUCED VOIDS IN METALS- PROCEEDINGS OF THE 1971 INTERNATIONAL CONFERENCE- AEC SYMPOSIUM, *Effects of Radiation on Substructure and Mechanical Properties of Metals and Alloys* John Moteff, 1973 Effects of Radiation on Materials, *Defects and Defect Clusters in B.c.c. Metals and Their Alloys* R. J. Arsenault, 1973 Effects of Radiation on Materials H. R. Brager, J. S. Perrin, 1982 Nuclear Science Abstracts, 1972 Spatio-Temporal Pattern Formation Daniel Walgraef, 2012-12-06 Spatio temporal patterns appear almost everywhere in nature and their description and understanding still raise important and basic questions However if one looks back 20 or 30 years definite progress has been made in the modeling of instabilities analysis of the dynamics in their vicinity pattern formation and stability quantitative experimental and numerical analysis of patterns and so on Universal behaviors of complex systems close to instabilities have been determined leading to the wide interdisciplinarity of a field that is now referred to as nonlinear science or science of complexity and in which initial concepts of dissipative structures or synergetics are deeply rooted In pioneering domains related to hydrodynamics or chemical instabilities the interactions between experimentalists and theoreticians sometimes on a daily basis have been a key to progress Everyone in the field praises the role played by the interactions and permanent feedbacks between experimental numerical and analytical studies in the achievements obtained during these years Many aspects of convective patterns in normal fluids binary mixtures or liquid crystals are now understood and described in this framework The generic presence of defects in extended systems is now well established and has induced new developments in the physics of laser with large Fresnel numbers Last but not least almost 40 years after his celebrated paper Turing structures have finally been obtained in real life chemical reactors triggering anew intense activity in the field of reaction diffusion systems **Embrittlement of Engineering Alloys** C. L. Briant, 2013-10-22 Treatise on Materials Science and Technology Volume 25 Embrittlement of Engineering Alloys is an 11 chapter text that describes some situations that produce premature failure of several engineering alloys including steels and nickel and aluminum base alloys Chapters 1 to 3 consider situations where improper alloy composition processing and or heat treatment can lead to a degradation of mechanical properties even in the absence of an aggressive environment or an elevated temperature Chapters 4 and 5 examine the effect

of elevated temperatures on the mechanical properties of both ferrous and nonferrous alloys Chapters 6 and 7 discuss the effects of corrosive environments on both stressed and unstressed materials In these environments anodic dissolution is the primary step that leads to failure Chapters 8 to 10 deal with the effects of aggressive environments that lead to enhanced decohesion or embrittlement of the metal such as hydrogen liquid metal and irradiation induced embrittlement Chapter 11 looks into the embrittlement phenomena occurring during welding one of the most common processing conditions to which a material could be subjected This book will prove useful to materials scientists and researchers *Effects of Radiation on*

*Structural Materials* ,1978      **Properties of Reactor Structural Alloys After Neutron Or Particle Irradiation** C. J.

Baroch,1975      **Reactor Technology** ,1972      **Power Reactor Technology and Reactor Fuel Processing** ,1971

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