

**VOLUME 4 RADIATION EFFECTS IN STRUCTURAL AND FUNCTIONAL MATERIALS  
FOR FISSION AND FUSION REACTORS**

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# 4.01 Radiation Effects in Zirconium Alloys

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# 4.11 Graphite in Gas-Cooled Reactors

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## **4.12 Vanadium for Nuclear Systems**

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## 4.13 Concrete\*

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## 4.14 Fracture Toughness Master Curve of bcc Steels

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## 4.15 Ceramic Breeder Materials

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## 4.16 Tritium Barriers and Tritium Diffusion in Fusion Reactors

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## 4.18 Carbon as a Fusion Plasma-Facing Material

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# 4.19 Beryllium as a Plasma-Facing Material for Near-Term Fusion Devices

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# 4.20 Physical and Mechanical Properties of Copper and Copper Alloys

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## 4.21 Ceramic Coatings as Electrical Insulators in Fusion Blankets

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## **4.22 Radiation Effects on the Physical Properties of Dielectric Insulators for Fusion Reactors**

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