

# The Structure Of Materials Paperback

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*Jena J. W. Martin Susan Troler-McKinstry Anatoly A. Popovich International Atomic Energy Agency  
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a new edition of the highly readable textbook applying the fundamentals of crystallography symmetry and diffraction to a range of materials

the concise encyclopedia of the structure of materials draws its content from the award winning encyclopedia of materials science and technology and includes updates and revisions not available in the original set materials science and engineering is concerned with the relationship between the properties and structure of materials in this context structure may be defined on the atomic scale in the case of crystalline materials on the molecular scale in the case of polymers for example or on the microscopic scale each of these definitions has been applied in making the present selection of articles this volume includes eighty articles which deal with metals polymers ceramics and glasses biomaterials wood and paper liquid crystals as well as some more general features every article has been commissioned and written by an internationally recognized expert and provides a concise overview of a particular aspect of the field extensive bibliographies cross referencing and indexes guide the user to the most relevant reading in the primary literature this customized collection of articles provides a handy reference for postgraduate research students materials scientists and engineers with an interest in the structure of metals polymers ceramics and glasses biomaterials wood paper and liquid crystals

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designed for the first year course on materials science the book exhaustively covers all the topics taught to students of engineering the book benefits from an updated treatment of the

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the second edition of this highly informative book retains much original material covering the principles of structural mechanics and the strength of materials together with the underlying concepts requisite to the theory of structure and structural design some of the material involving lengthy hand drawing or hand calculation has been replaced with more up to date relevant material and frequent reference is made to computer aided learning techniques

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