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materials as well as natural rocks and earth formations tectonic processes it demonstrates how knowledge gained in one field of study can have a strong impact on other fields engineering physics of high temperature materials will be of interest to a broad range of specialists including earth scientists volcanologists cryospheric and interdisciplinary climate scientists and solid earth geophysicists the book demonstrates that apparently dissimilar polycrystalline materials including metals alloys ice rocks ceramics and glassy materials all behave in a surprisingly similar way at high temperatures this similarity makes the information contained in the book valuable to all manner of physical scientists readers will also benefit from the inclusion of a thorough introduction to the importance of a unified model of high temperature material behavior including high temperature deformation and the strength of materials an exploration of the nature of crystalline substances for engineering applications including basic materials classification solid state materials and general physical principles discussions of forensic physical materialogy and test techniques and test systems examinations of creep fundamentals including rheology and rheological terminology and phenomenological creep failure models perfect for materials scientists metallurgists and glaciologists engineering physics of high temperature materials metals ice rocks and ceramics will also earn a place in the libraries of specialists in the nuclear chemical and aerospace industries with an interest in the physics and engineering of high temperature materials

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