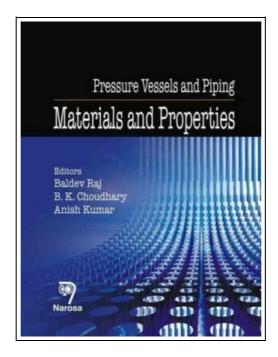
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Narosa Publishing House, 2009. Hardcover. Condition: New. The world of materials is complex, exciting and challenging. This volume of Pressure Vessels and Piping: Materials and Properties is an attempt to share the excitement, knowledge and awareness. The chronological development of high temperature materials has been highlighted in several reviews. The development of new materials to achieve better efficiency and cost effectiveness of power generating and allied industries has been discussed through several original contributions. High temperature mechanical properties including creep, fatigue and fracture, the key criteria for safe life design of components along with physical metallurgy and corrosion aspects for a variety of materials form the contents. The book is a valuable source of knowledge and inspiration to students, researchers, scientists, engineers, plant personnel and technology managers. Table of Contents Materials for ultra-supercritical coal-fired power plant boilers / Advanced ferritic steels for thick section boiler components in USC power plant at 923 K / High temperature alloys for pressure vessels and piping / Development, production and behaviour of new CrMoV steel for tubes and pipes for power generation equipments / Corrosion resistant alloys for pressure vessels and piping / Environmental barrier coatings for ceramic components in gas turbines / On the creep behaviour of T91 steel for PFBR steam generator tube applications / Creep behaviour of simulated heat affected zone microstructures and weld joint of P91 steel / The significance of microstructure changes and steam oxidation for the service life of chromium steel components / Tertiary creep of tempered martensite 9-12% Cr steels / Creep failure behaviour and life prediction of high strength ferritic steels / Assessment of long-term creep strength of high Cr ferritic creep resistant steels with region splitting method / Cost-effective acquisition of long-term creep design data / A new creep damage criterion and its implications to.



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