



Neutron Diffraction Investigation of Residual Stresses in Transverse/Oblique Rail Slices Subjected to Different Grinding Strategies (Classic Reprint) (Paperback)

By T Gnaupel-Herold

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Neutron Diffraction Investigation of Residual Stresses in Transverse/Oblique Rail Slices Subjected to Different Grinding Strategies Under Project Plan Agreement (ppa) rr-19 with the Office of Research and Development, Federal Railroad Administration (fra), the John A. Volpe National Transportation Systems Center has been conducting a long-term research project on rail integrity. Over the past 20 years the development of high strength alloys and the use of lubrication has lead to a significant prolongation of rail wear life [1 Although wear remains the principal life limiting factor the focus of attention with respect to rail safety and integrity has shifted to crack failure induced by long-term rolling contact fatigue. This is additionally amplified by the strong interest of the industry to further increase axle loads and speed. A main source of such service-induced damage is the concentration of very high contact stresses on the rail which leads to subsurface plastic deformation with accumulation of residual stresses of the order of the yield stress. The immediate damage effects are fatigue crack initiation and growth. Secondary damage effects are initiated by the feeding of material due...



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