

# **Residual Stress In Rails**

Oscar Orringer, Janusz Orkisz, Zdzisław Świderski

#### **Residual Stress In Rails:**

Residual Stress in Rails O. Orringer, J. Orkisz, Zdzislaw Swiderski, 1992-03-31 Rail integrity is a current application of engineering fracture mechanics at a practical level Although railroad rails have been manufactured and used for more than a century it is only in the last ten years that the effects of their crack propagation and fracture characteristics have been considered from a rational viewpoint The J Jractical objectives are to develop damage tolerance delines for rail inspection and to improve the fracture resistance of new rail productiOn Rail fatigue crack propagation rates and fracture resistance are strongly influenced by residual stresses which are introduced into the rail both during production and in service Therefore the rail residual stress field must be well understood before fracture mechanics can be usefully applied to the subject of rail integrity The three dintensional character of rail and its stress fields make it essential to apply both experimental and analytical methods in order to twderstand the effects of pro duction and service variables on residual stress and the effects of the stress on fatigue crack propagation and fracture This volume brings to ether field observations and experimental stress analysis of railroad rails in the Umted States and Europe The ongoing search for an efficient and accurate technique is emphasized A companion volume brings together several analytical investigations based on advanced computational mechanics methods for correlation of the experimental data as well as eval uation of the effects of residual stress on rail Residual stress in rails: Oscar Orringer, Janusz Orkisz, Zdzisław Świderski, 1992-03-15 These volumes contain integrity contributions from a conference on the themes of measurement and prediction of residual stress in railroad rails The first volume features practical railway experience and laboratory tests while the second one presents theoretical and numerical **Residual Stress in Rails** Oscar Orringer, Janusz Orkisz, Zdzisław Świderski, 1992 **Residual Stress in Rails** analyses ,1992 Residual Stress in Rails O. Orringer, J. Orkisz, Zdzisław Swiderski, 1992-03-31 Rail integrity is a current application of engineering fracture mechanics at a practical level Although railroad rails have been manufactured and used for more than a century it is only in the last ten years that the effects of their crack propagation and fracture characteristics have been considered from a rational viewpoint The J Jractical objectives are to develop damage tolerance delines for rail inspection and to improve the fracture resistance of new rail production Rail fatigue crack propagation rates and fracture resistance are strongly influenced by residual stresses which are introduced into the rail both during production and in service Therefore the rail residual stress field must be well understood before fracture mechanics can be usefully applied to the subject of rail integrity The three dintensional character of rail and its stress fields make it essential to apply both experimental and analytical methods in order to twderstand the effects of pro duction and service variables on residual stress and the effects of the stress on fatigue crack propagation and fracture This volume brings to ether field observations and experimental stress analysis of railroad rails in the Umted States and Europe The ongoing search for an efficient and accurate technique is emphasized A companion volume brings together several analytical investigations based on advanced

Residual Stress Measurement in Railroad Rails B. W. Maxfield, T. Edward Whittick, A. Kuramoto, 1990 Description of the implementation of an acoustic shear wave birefringence method for measuring the difference in the in plane residual stresses for the two orthogonal polarization directions Specimens 40 mm thick were cut from the head of head hardened and as rolled rail sections A permanent magnet EMAT ultrasonic system was used to measure the difference in the transit time for the two shear polarizations to an accuracy of positive negative 2 ns which corresponds to a stress error of about positive negative 20 20 MPa The transit difference was measured as a function of position over the cross section of the rail head with a spatial resolution of about 10 mm Residual Stress Measurement in Railroad Rails, Phase I B. W. Maxfield, Transportation Development Centre (Canada), Permatrack Systems Inc, 1991 **Rail Quality and Maintenance** for Modern Railway Operation J.J. Kalker, D.F. Cannon, O. Orringer, 2013-04-18 In April 1990 a conference was held at the Cracow Institute of Technology Cracow Poland The title of that conference was Residual Stresses in Rails Effects on Rail Integrity and Railroad Economics and its themes were the measurement and prediction of residual stresses in rails but as the sub title suggests the intention was also to provide a link between research and its application to the practical railway world At the Cracow conference there were 40 participants with 5 railways and 5 rail makers being represented and 25 papers were given The Cracow conference was a success and by March 1991 its off spring The International Conference on Rail Quality and Maintenance for Modern Railway Operations was conceived and birth was ultimately given in June 1992 at the Technical University Delft It turned out to be some baby with 112 delegates from 24 countries taking part As with its predecessor the conference was to provide a forum for the exchange of ideas between research investigators rail makers and railway engineers A cursory examination of the list of participants suggests that about 57% were from the railway industry 34% from universities and other research institutions and 9% from the steel industry Bearing in mind that some of the railway industry participants were from their respective research and development organisations the balance of interests was about right International Conference on Residual Stresses G. Beck, S. Denis, A. Simon, 2012-12-06 Residual stresses are

always introduced in materials when they are produced or when they undergo non uniform plastic deformation during use The circumstances that can cause residual stresses are therefore numerous Residual stresses exist in all materials and depending on their distribution can play beneficial role for example compressive surface stress or have a catastrophic effect especially on fatigue behaviour and corrosion properties The subject of residual stresses took form around 1970 with the development of methods to measure macroscopic deformations during the machining of materials or on an atomic scale by X ray diffraction These techniques have made considerable progress in the last 20 years The meetings organized in several countries Germany France Japan etc have largely contributed to this progress aided by the numerous exchanges of information and knowledge to which they have given rise Studies of the formation of residual stresses began more slowly but have progressed with the emergence of increasingly realistic models of materials behaviour and with access to ever more powerful codes for numerical calculations Two successive meetings for discussing this topic have been held in Europe The first held in 1982 in Nancy France consisted of 30 participants from 5 countries. The second was held in Linkoping Sweden in 1984 with 80 participants of 16 nationalities It was decided to hold a first International Conference ICRS to address all aspects of the problem Held in 1986 in Garmisch Partenkirschen FRG it was an assembly of neady 300 participants from 21 Residual Stress Formation During the Roller Straightening of Rails Gerald Schleinzer, 2000 countries Stress Measurement Jude Odihachukwuma Igwemezie, Transportation Development Centre (Canada), Canadian Institute of Guided Ground Transport, 1994 Failure Analysis in Engineering Applications Shin-Ichi Nishida, 2014-05-15 Failure Analysis in Engineering Applications deals with equipment and machine design together with examples of failures and countermeasures to avoid such failures This book analyzes failures in facilities or structures and the ways to prevent them from happening in the future The author describes conventional terms associated with failure or states of failure including the strength of materials as well as the procedure in failure analysis materials used design stress service conditions simulation examination of results The author also describes the mechanism of fatigue failure and prediction methods to estimate the remaining life of affected structures The author cites some precautions to be followed in actual failure analysis such as detailed observation on the fracture site removal of surface deposits for example rusts without altering the fracture size or shape The book gives examples of analysis of failure involving a crane head sheave hanger wire rope transmission shaft environmental failure of fastening screws and failures in rail joints This book is intended for civil and industrial engineers for technical designers or engineers involved in the maintenance of equipment machineries and structures

Experimental 3-D Residual Stress Measurements in Rails with Thermal Annealing ,1999 International Scientific Conference Energy Management of Municipal Facilities and Sustainable Energy Technologies EMMFT 2018 Vera Murgul, Marco Pasetti, 2019-05-27 This book presents a collection of the latest studies on and applications for the sustainable development of urban energy systems Based on the 20th International Scientific Conference on Energy Management of

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