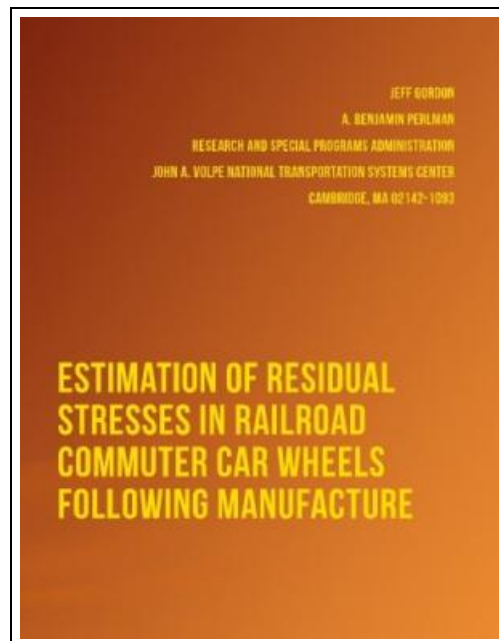


Estimation of Residual Stresses in Railroad Commuter Car Wheels Following Manufacture



Filesize: 4.85 MB

Reviews

This type of publication is every thing and taught me to searching ahead and more. It can be rally fascinating throgh reading through period of time. You can expect to like how the blogger write this pdf.

(Dr. Jillian Champlin IV)

ESTIMATION OF RESIDUAL STRESSES IN RAILROAD COMMUTER CAR WHEELS FOLLOWING MANUFACTURE



To read **Estimation of Residual Stresses in Railroad Commuter Car Wheels Following Manufacture** eBook, make sure you refer to the hyperlink listed below and save the ebook or gain access to additional information which are in conjunction with ESTIMATION OF RESIDUAL STRESSES IN RAILROAD COMMUTER CAR WHEELS FOLLOWING MANUFACTURE book.

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 106 pages. Dimensions: 11.0in. x 8.5in. x 0.2in. A computer simulation of the manufacturing process of railroad car wheels is described to determine the residual stresses in the wheel following fabrication. Knowledge of, and the ability to predict, these stresses is useful in assessing the ability of wheels to perform safely under expected service conditions. A finite element analysis is performed which simulates portions of the processing sequence. A heat transfer analysis determines the transient thermal distribution during quenching. The mechanical (stress) analysis employs an elastic-plastic material model with kinematic hardening and includes viscoelastic creep behavior. A baseline scenario is developed to represent the best available estimate of processing parameters and material properties for the analysis. Predictions indicate development of residual circumferential (hoop) compression on the order of 200 MPa (29 ksi) in the wheel rim of approximately 3.75 cm (1.48 inches). Modifications to the baseline scenario were studied in order to understand which steps of the analysis resulted in the most significant changes in the results. This item ships from La Vergne, TN. Paperback.



[Read Estimation of Residual Stresses in Railroad Commuter Car Wheels Following Manufacture Online](#)



[Download PDF Estimation of Residual Stresses in Railroad Commuter Car Wheels Following Manufacture](#)

Other Kindle Books



[PDF] **Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Access the link under to get "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." PDF document.

[Read Document »](#)



[PDF] **Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade**

Access the link under to get "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" PDF document.

[Read Document »](#)



[PDF] **Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade**

Access the link under to get "Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade" PDF document.

[Read Document »](#)



[PDF] **Growing Up: From Baby to Adult High Beginning Book with Online Access**

Access the link under to get "Growing Up: From Baby to Adult High Beginning Book with Online Access" PDF document.

[Read Document »](#)



[PDF] **On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback**

Access the link under to get "On the Go with Baby A Stress Free Guide to Getting Across Town or Around the World by Ericka Lutz 2002 Paperback" PDF document.

[Read Document »](#)



[PDF] **Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School**

Access the link under to get "Some of My Best Friends Are Books : Guiding Gifted Readers from Preschool to High School" PDF document.

[Read Document »](#)