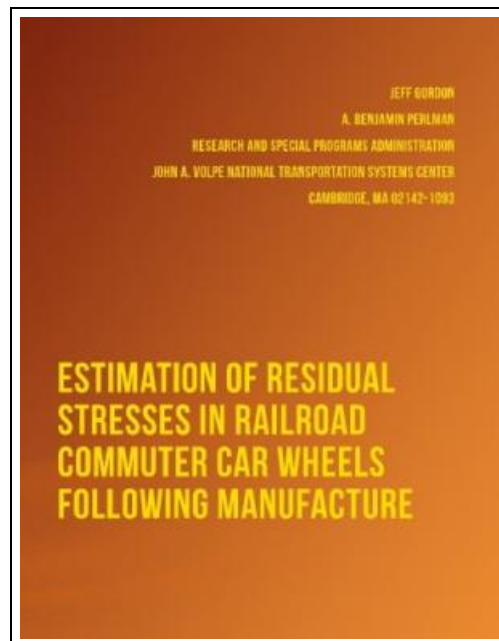


## Estimation of Residual Stresses in Railroad Commuter Car Wheels Following Manufacture



Filesize: 4.17 MB

### ***Reviews***

*The most effective publication i ever go through. It really is writter in simple phrases and not hard to understand. I am just easily will get a satisfaction of looking at a written publication.*

***(Ila Pfeffer IV)***

## ESTIMATION OF RESIDUAL STRESSES IN RAILROAD COMMUTER CAR WHEELS FOLLOWING MANUFACTURE



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](#)

## You May Also Like



**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 .**

Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can usually...

[Read Book »](#)



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

Book Condition: Brand New. Book Condition: Brand New.

[Read Book »](#)



**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**

Book Condition: Brand New. Book Condition: Brand New.

[Read Book »](#)



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

Cambridge University Press, 2014. UNK. Book Condition: New. New Book. Shipped from US within 10 to 14 business days. Established seller since 2000.

[Read Book »](#)



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

Book Condition: Brand New. Book Condition: Brand New.

[Read Book »](#)

**Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to

[Download PDF »](#)

**Shadows Bright as Glass: The Remarkable Story of One Man's Journey from Brain Trauma to Artistic Triumph**

Free Press. Hardcover. Book Condition: New. 1439143102 SHIPS WITHIN 24 HOURS!! (SAME BUSINESS DAY) GREAT BOOK!!

[Download PDF »](#)

**RCadvisor s Modify: Design and Build From Scratch Your Own Modern Flying Model Airplane In One Day for Just**

Rcadvisor.com, United States, 2009. Paperback. Book Condition: New. 238 x 166 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Experience firsthand the joys of building and flying your very own model airplane

[Download PDF »](#)

**The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds**

Anness Publishing. Paperback. Book Condition: new. BRAND NEW, The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds, Nicola Baxter, Geoff Ball, This is a super-size first reading book for 3-5 year

[Download PDF »](#)

**From Dare to Due Date**

Harlequin, United States, 2016. Paperback. Book Condition: New. Not for Online.. 168 x 104 mm. Language: English . Brand New Book. THE NIGHT THEY MADE A BABY Mia Palinski had never even considered herself the

[Download PDF »](#)