



Thermo-Mechanical Modeling of Additive Manufacturing (Paperback)

By -

Elsevier - Health Sciences Division, United States, 2017. Paperback. Condition: New. Language: English . Brand New Book. Thermo-mechanical Modeling of Additive Manufacturing provides the background, methodology and description of modeling techniques to enable the reader to perform their own accurate and reliable simulations of any additive process. Part I provides an in depth introduction to the fundamentals of additive manufacturing modeling, a description of adaptive mesh strategies, a thorough description of thermal losses and a discussion of residual stress and distortion. Part II applies the engineering fundamentals to direct energy deposition processes including laser cladding, LENS builds, large electron beam parts and an exploration of residual stress and deformation mitigation strategies. Part III concerns the thermo-mechanical modeling of powder bed processes with a description of the heat input model, classical thermo-mechanical modeling, and part scale modeling. The book serves as an essential reference for engineers and technicians in both industry and academia, performing both research and full-scale production. Additive manufacturing processes are revolutionizing production throughout industry. These technologies enable the cost-effective manufacture of small lot parts, rapid repair of damaged components and construction of previously impossible-to-produce geometries. However, the large thermal gradients inherent in these processes incur large residual stresses...



READ ONLINE
[1.34 MB]

Reviews

I just started looking over this ebook. It is actually rally fascinating throgh reading period of time. You wont really feel monotony at anytime of your time (that's what catalogues are for about when you request me).

-- Miss Naomie Kohler PhD

Absolutely essential read through ebook. Better then never, though i am quite late in start reading this one. I am just delighted to inform you that this is actually the finest ebook i actually have read through during my own existence and might be he greatest publication for actually.

-- Ms. Vernie Stracke

Related Books



[Weebies Family Halloween Night English Language: English Language British Full Colour](#)

Createspace, United States, 2014. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Children s Weebies Family Halloween Night Book 20 starts to teach Pre-School and Junior Children how to read with this...



[Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: \(Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures\)](#)

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Getting Your FREE Bonus Download this book, read it to the end and see BONUS: Your FREE Gift chapter after...



[Ninja Adventure Book: Ninja Book for Kids with Comic Illustration: Fart Book: Ninja Skateboard Farts \(Perfect Ninja Books for Boys - Chapter Books for Kids Age 8 - 10 with Comic Pictures Audiobook with Book\)](#)

Createspace, United States, 2013. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.BONUS- Includes FREE Dog Farts Audio Book for Kids Inside! For a very time limited period you can download...



[10 Most Interesting Stories for Children: New Collection of Moral Stories with Pictures](#)

Paperback. Book Condition: New. This item is printed on demand. Item doesn't include CD/DVD.



[Preschool education research methods\(Chinese Edition\)](#)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date :2013-08-01 Language: Chinese Publisher:. Nanjing University Press only genuine new book - book shelves No picture if you...



[Sea Pictures, Op. 37: Vocal Score](#)

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 276 x 214 mm. Language: English . Brand New Book ***** Print on Demand *****.Composed for the Norfolk and Norwich Festival, Sea Pictures was heard for the first time on October 5,...