



# Finite Element Modeling Of Lens Deposition Using Sysweld

**D Siedentop**



## **Finite Element Modeling Of Lens Deposition Using Sysweld:**

*Additive Manufacturing* T.S. Srivatsan, T.S. Sudarshan, 2015-09-25 Get Ready for the Future of Additive Manufacturing Additive Manufacturing Innovations Advances and Applications explores the emerging field of additive manufacturing AM the use of 3D printing to make prototype parts on demand Often referred to as the third industrial revolution AM offers many advantages over traditional manufacturing This pr **Journal of Heat Transfer** ,2008

*Sustainable Design and Manufacturing 2014 Part 2* R. Setchi, R.J. Howlett, M. Naim, H. Seinz, **New Challenges in Residual Stress Measurements and Evaluation** Caterina Casavola, Claudia Barile, Vincenzo Moramarco, Giovanni Pappalettera, 2020-07-22 Residual stresses RS are stresses present inside materials even in the absence of any applied load They are of capital importance because they can impact greatly on the mechanical strength of the material on its dimensional correspondence to design specifications as well as on the fatigue life of the part RS measurement and evaluation is currently an important research topic where a lot of challenges still need to be addressed This book aims to provide the reader with an overview of the principal novelties in this field including current limitations and potential future developments Both radically new experimental approaches as well as recent evolutions of consolidated ones will be presented along with the latest novelties in the area of numerical residual stress evaluation **International Journal of the Japan Society for Precision Engineering** ,1998 Metals Abstracts ,1996 *ANALYSIS OF THERMO-MECHANICAL CHARACTERISTICS OF THE LENS PROCESS FOR STEELS USING THE FINITE ELEMENT METHOD.* ,2009 Laser Engineered Net Shaping LENS is a rapid manufacturing procedure that involves complex thermal mechanical and metallurgical interactions The finite element method FEM may be used to accurately model this process allowing for optimized selection of input parameters and hence the fabrication of components with improved thermo mechanical properties In this study the commercial FEM code SYSWELD is used to predict the thermal histories and residual stresses generated in LENS produced thin plates of AISI 410 stainless steel built by varying the process parameters laser power and stage translation speed The computational results are compared with experimental measurements for validation and a parametric study is performed to determine how the thermo mechanical properties vary with these parameters Thermal calculations are also performed with the code ABAQUS to evaluate its potential use as a modeling tool for the LENS process Analytical Results of Intraocular Lens by Using Finite Element Model Kyo H. Kim, 1986 **Finite Element Modelling as a Predictor of Soft Contact Lens Performance on the Eye** Geoffrey Brent, 2003 **Control of Thermal History in Direct Laser Deposition Using Finite Element Method** Eric Hochmann, 2017 Additive manufacturing has become a topic of interest within the past decade Direct Laser deposition DLD also known as laser engineered net shaping LENS is an additive manufacturing method that is used for metals In general there are many advantages of additive manufacturing methods and DLD in particular over conventional manufacturing processes such as reduced cost and production time An additional advantage is the ability to control the

mechanical properties of a part by governing the thermal gradient near the heat affected zone as the part is built Overall the goal is to minimize local thermal gradients and cyclic reheating in order to produce superior parts with minimized residual stresses The thermal history can be controlled by varying the laser power laser scanning velocity scanning pattern substrate geometry and substrate pre heating all of which are variables that have been extensively studied However there has been no developments on how varying the convective film coefficient on the bottom surface of the substrate can affect the temperature field inside and around the build A transient thermal analysis using finite element method in ANSYS was conducted to determine the effects of varied convection as well as build geometry on the thermal history of the build Element birth capabilities are also utilized to obtain accurate real time results

Nonlinear Finite Element Model Analysis of Human Accommodation Lens Tri Le,2005 The crystalline human lens is modeled by using the finite element software ABAQUS CAE Version 6.5.1 as an axisymmetric shell to study the optical power and displacement of anterior and posterior poles induced due to zonule traction Several different element types were tested to obtain the optimum mesh These elements were three and six noded triangular hybrid and four noded quadrilateral hybrid for modeling of the cortex and nucleus Constant strain triangular and regular quadrilateral elements were examined for modeling the capsule One dimensional two degree of freedom spring elements were used to model the anterior posterior and equatorial zonules Six different lens profiles were selected to mathematically model the lens geometry which included Lizak Krueger A Krueger B Strenk A Strenk B and Trial lens A displacement based incremental loading history was applied to the equatorial zonule to conduct geometric nonlinear analysis The converged solution was obtained by coupling Hilbert L 2 norm and equating external work done to internal system strain energy The converged and optimum solution was compared with analytical solution reported in literature and was selected to conduct a comprehensive parametric study Abstract shortened by UMI

**ANALYSIS OF THERMO-MECHANICAL CHARACTERISTICS OF THE LENS PROCESS FOR STEELS USING THE FINITE ELEMENT METHOD.** ,2004 Laser Engineered Net Shaping LENS is a rapid manufacturing procedure that involves complex thermal mechanical and metallurgical interactions The finite element method FEM may be used to accurately model this process allowing for optimized selection of input parameters and hence the fabrication of components with improved thermo mechanical properties In this study the commercial FEM code SYSWELD is used to predict the thermal histories and residual stresses generated in LENS produced thin plates of AISI 410 stainless steel built by varying the process parameters laser power and stage translation speed The computational results are compared with experimental measurements for validation and a parametric study is performed to determine how the thermo mechanical properties vary with these parameters Thermal calculations are also performed with the code ABAQUS to evaluate its potential use as a modeling tool for the LENS process

Finite Element Analysis of Large Lenses for the Keck Telescope High Resolution Echelle Spectrograph Bruce Bigelow,1992

**Finite Element Modeling Methods for Photonics** B. M. Azizur Rahman ,Arti Agrawal ,2013-08-01 The

term photonics can be used loosely to refer to a vast array of components devices and technologies that in some way involve manipulation of light One of the most powerful numerical approaches available to engineers developing photonic components and devices is the Finite Element Method FEM which can be used to model and simulate such components devices and analyze how they will behave in response to various outside influences This resource provides a comprehensive description of the formulation and applications of FEM in photonics applications ranging from telecommunications astronomy and sensing to chemistry imaging and biomedical R D This book emphasizes practical problem solving applications and includes real world examples to assist readers in understanding how mathematical concepts translate to computer code for finite element based methods applicable to a range of photonic structures In addition this is the perfect support to anyone using the COMSOL Multiphysics RF Module

**Finite Element Modeling of a Single Pass Weld** C. K. Leung,R. J. Pick,Danny H. B. Mok,Welding Research Council (U.S.),1990

**Finite Element Modelling of Human Eye Lens** Kehao Wang,2017

**Three-dimensional Transient Residual Stress Finite Element Analysis for Single and Double Pass Laser Aided Direct Metal/material Deposition Process** Suhash Ghosh,2003 This thesis is an attempt towards a methodology of finite element analysis FEA for the prediction of quenching related macroscopic as well as microscopic residual stresses in laser aided DMD process Abstract p iii

**Finite Element Modeling with Analog VLSI** Aneil Ashoh Shah,1994

*Second Order Finite Element Modelling of Saturated Magnetic Electron Lenses* John Gerard Hodkinson,1995

**Prediction of Residual Stresses in Laser Glazing and Laser Powder Deposition Processes Using FEM** Prashanth Kumar Tirukovelluri,2007

The objective of the research is to develop a three dimensional finite element model for predicting residual stresses that evolve during the Laser Powder Deposition of thin walled builds using commercially available finite element software ABAQUS Standard 5 The research work was started by developing a finite element model of Laser Glazing process which is relatively simple when compared to Laser Powder Deposition in modeling perspective as there is no dynamic addition of material The experience gained from modeling of Laser Glazing was applied to develop a finite element model of Laser Powder Deposition for prediction of residual stresses The numerical model of Laser Glazing is based on sequentially coupled thermo mechanical theory and Laser Powder Deposition process on fully coupled thermo mechanical theory To simplify the models symmetry of geometry and boundary conditions were taken into account In both the models temperature dependent material properties were included Also latent heat corresponding to melting was taken into account The material was defined as elastic perfectly plastic The results predicted by the thermal model of Laser Glazing are comparable with analytical solution and are also validated with the results obtained from carefully designed experiments In the case of finite element model of Laser Powder Deposition it can be concluded that the results obtained are reasonable based on previous experimental studies by others

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