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# SIMULATION OF MICROPOROSITY IN ALUMINUM PLATE CASTINGS



Enrique Escobar de Obaldia  
Simulation of Microporosity  
in Aluminum Plate Castings  
Thesis for the Degree of Master of Science  
in Mechanical Engineering at Mississippi State  
University



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Thesis for the Degree of Master of Science in Mechanical Engineering at Mississippi State University | Porosity is known to be one of the primary factors controlling fatigue life and total elongation in cast aluminum components. The thrust of this study is to examine pore nucleation and growth effects for predicting gas microporosity in A356 plates. In this work, a solidification model is used to quantify and evaluate the discrepancy between experimental..

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