



VINCENT ROBIN

EXPERT RESEARCH ENGINEER



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Since 2016, Vincent ROBIN is an expert research engineer working for different projects related to manufacturing and repair for nuclear power plant equipment at EDF Group Research Center. These research activities concern the understanding of physical phenomena involved during material processing and the assessment of consequences on equipment fitness for service. Material characterization, process monitoring and simulation of manufacturing processes are the main topics of interest applied to : ingot casting, forging and heat treatment, arc welding and repair, additive manufacturing and surfacic mitigation processes. Vincent ROBIN is a graduated engineer in mechanical engineering since 1998. He obtained a PhD in 2009. This R&D work was prepared at the same time than its professional activity which started in 1998.

The title of the thesis is "From the numerical modeling of manufacturing processes and welding in particular to the mechanical behavior of weldments". After ten year of working in the field of scientific software development for manufacturing process and fracture mechanics simulation at ESI Group within the framework of R&D projects and industrial studies for different part of the industry (nuclear power, transportation, defense...), he decided to work more intensively for the nuclear industry. Since 2008 he has been working for Framatome (formerly AREVA Nuclear Power) in the mechanical engineering department as a numerical simulation specialist. He was expert in the manufacturing domain and in charge of R&D projects in the field of fabrication (e.g. welding, machining, additive manufacturing...), fracture mechanics and materials. In 2016, he has joined EDF Group Research Center as an expert research engineer working for different projects related to manufacturing and repair for nuclear power plant..