

Afshin Heidari Monfared

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Education

HackYourFuture Fullstack Web-Development	2018 — 2019
PhD Belarusian National Technical University Field of Study: Welding metallurgy	2007 — 2012
Master Degree Iran University Science and Technology Field of Study: Extractive metallurgy	2002 — 2004
Bachelor Degree Islamic Azad University Karaj Field of Study :Casting metallurgy	1993 — 1997

Skills

- Build a simple web application using React, Node.js and MySQL.
- Simulation of metallurgical processes with adequate software.
- Development of Navier-Stokes-code for fluid flow simulation.
- Development of Phase field-code for solidification simulation.
- · Independent Problem Solving.

Employment

AMA Industrial Company (Iran)

July 23, 2009 — April 2016

Senior of Research and Development and Quality Control

Negar Andish Consulting Engineer(Iran)

July 3, 2008 — July 4, 2009

Engineer of Process of High Carbon Ferro-chrome

Software Projects

- 1. Implement role based access control in node.js.
- 2. Numerical modeling of welded joints using SYSWELD for prediction of deformation.
- 3. Application of Thermo-Calc & DICTRA interface (TQ) for calculation of phase diagrams with use of Fortran source codes.
- 4. Numerical simulation of tension and Charpy impact test with use of LS DYNA software.
- 5. Development of computer program for calculation of chemical slag compositions.
- 6. Development of computer programs for calculation of charge composition in production of Ferrochromium and Ferrosilicon.
- 7. Development a Fortran source code for thickness calculation of carbon refractory in the bottom side of electrical arc furnace.
- 8. Development a VB source code for optimum operation of the furnace with attention of electrical energy and charge composition.
- 9. Development a Fortran source code for simulation of low carbon steel solidification with use of phase field model.

Interests

- Creating website using React and Node.Js
- Independent jobs for example mechanical or technical fields, like math or computer programming.
- Simulation of metallurgical processes with adequate software.

Publication

- 1. Numerical and experimental investigations on welding residual stress in one-pass butt-welded low carbon steel СТЗ / А. Heidari Monfared, F.I. Panteleenko //Международный научный симпозиум «Перспективные материалы и технологии». 25-26 мая 2009. Витебск, Беларусь. С. 135.
- 2. Numerical simulation of welding distortion in thin plates / A. Heidari Monfared, F.I.Panteleenko // Сборник материалов II, Международной научно-практической конференции «Инженерия поверхностного слоя деталей машин». Минск, БНТУ. 2010. C.162-163.
- 3.Temperature, stress in CT3 steel plate during air-arc and welding process / F.I. Panteleenko, A. Heidari Monfared // Journal of engineering physics and thermophysics,2010,Volume 83,No. 3.P.593-597.
- 4. Математическое моделирование сварочных деформаций в тонких пластинах / А. Хейдари Монфаред, Ф.И. Пантелеенко, А.Ф. Пантелеенко // Вестник БНТУ,2011, № 5. С.18-24.
- 5. Снижение поверхностных деформаций путем термической обработки в процессе стыковой сварки / А. Хейдари Монфаред, Ф.И. Пантелеенко, А.Ф. Пантелеенко // Вестник ПГУ Промышленность. Прикладные науки. –2011. № 3. С.19-26.
- 6. Decreasing of distortion with use of heat treatment in the butt welding process ./ A. Heidari Monfared, F.I. Panteleenko, A.F. Panteleenko // Vestnik PGU Industry. Applied Science. –2011. № 3. P.19–26.
- 7. Numerical simulation of welding distortion in thin plates / A. Heidari Monfared // Journal of Engineering Physics and Thermophysics. 2012, V. 85, No. 1. P. 174-180.
- 8. Численный анализ различных параметров для минимизации искривления при сварке тонких пластин / А. Хейдари Монфаред, Ф.И. Пантелеенко // 2-я Международная научно-практическая конференция «Инновации в машиностроении», Сборник трудов, 6-8 октября 2011. Россия, Кемерово. С.296—301.

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