

Handbook Of Electromagnetic Pump Technology

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more and more researchers engage into investigation of electromagnetic applications especially these connected with mechatronics information technologies medicine biology and material sciences it is readily seen when looking at the content of the book that computational techniques which were under development during the last three decades and are still being developed serve as good tools for discovering new electromagnetic phenomena it means that the field of computational electromagnetics belongs to an application area rather than to a research area this publication aims at joining theory and practice thus the majority of papers are deeply rooted in engineering problems being simultaneously of high theoretical level the editors hope to touch the heart of the matter in electromagnetism the book focuses on the following issues computational electromagnetics electromagnetic engineering coupled field and special applications micro and special devices bioelectromagnetics and electromagnetic hazard and magnetic material modelling abstracted in inspec

science and technology of liquid metal coolants in nuclear engineering is a comprehensive consolidation of the latest research and knowledge on liquid metal coolants over the last decades various new technologies have been developed for the liquid metal coolants of fast breeder and fusion reactors and accelerator driven systems details of pumps and instrumentation used in these coolants and their operating principles are included to provide the reader with a well rounded understanding of the topic and to guide on the operation of different liquid metal coolant systems methods for the safe handling and control of impurity levels in these coolants are clearly discussed along with alkali metal fires and their management including methods for safe disposal of sodium waste discusses the thermophysical and chemical properties of liquid metals described with their microscopic origin includes methods for the safe handling of liquid metal coolants and their purification and management discusses pumps and instrumentation principles and design

this book is the 12th volume of the proceeding papers from the 32nd international conference on nuclear engineering icone 32 this book covers the topics of track 8 computational fluid dynamics cfd and applications the icone with a history of 35 years was jointly initiated in 1991 by the american society of mechanical engineers asme and the japan society of mechanical engineers jsme in 2005 the chinese nuclear society cns became one of the conference organizers since then the conference has been co hosted by cns asme and jsme with

each society taking turns to organize the event annually it stands as the preeminent global forum for nuclear professionals who seek to remain at the forefront of technological advancements and industry developments the icone 32 hosted by cns took place from june 22 to 26 2025 in weihai china the proceedings of icone 32 summarize the latest advancements in all aspects of nuclear engineering and constitute an invaluable resource for researchers engineers policy makers and students

the actual concerns with respect to safe operation of existing nuclear plants and to designing special architectures envisaged for the fourth generation of nuclear reactors corroborated with the increasing interest for efficiency and reliability of any equipment belonging to an energetic system make that more and more research endeavors to be devoted to the study of various parts of these systems for a better understanding and optimization based on modern techniques of computer aided design among the types proposed for the fourth generation of nuclear reactors belong those that have as cooling agent molten salts respectively liquid sodium many reactors of previous generations use mechanical pumps of special design for driving the coolants molten salts and liquid sodium thanks to their physical properties have the potential to be driven using electromagnetic pumps although the technology of electromagnetic pumping of electroconductive fluids was developed since the first half of the last century currently it undergoes a revival due to the reconsideration of its multiple technological and security advantages this work is both an intimate study of the phenomena that occur as a result of the electroconductive fluids flow in the electromagnetic field of an electromagnetic pump magnetohydrodynamic interaction and a report on the capabilities and advantages of modern computational tools to facilitate design and optimization of electromagnetic pumps to achieve the principal goal of deeper understanding of the interdependent phenomena specific to electromagnetic pumps operation two auxiliary objectives were considered the first is related to the full exploitation of electromagnetic finite element models in order to retrieve as much information as possible about electromagnetic pumps behavior in a simplifying hypothesis that does not take into account the fluid dynamics the second auxiliary objective is to build numerical models that couple the electromagnetism and the fluid dynamics namely the two interdependent physics that govern the magnetohydrodynamic flow through channels of electromagnetic pumps in the section dealing with the study of electromagnetic pumping of molten salts the thesis highlights specific problems related the generation of electromagnetic forces in fluids with low electrical conductivity and provides results with respect to applications where electromagnetic pumping of molten

salts can be effective with the electromagnetic numerical models were obtained important data about the influence of the number of electromagnetic poles and supply frequency on the pressure velocity characteristic of annular linear induction pumps were analyzed the shielding effect generated by the metallic walls with negative repercussions on pumps performances braking effects exerted at pump inlet and pump outlet and the connection between the overload capacity and pressure velocity characteristic of induction pumps a special portion was devoted to the analysis of the time and space dependence of the electromagnetic force and to the study of the non uniformities of electromagnetic quantities in azimuth direction of annular linear induction pumps in the chapter devoted to the magnetohydrodynamic interaction through coupled models the thesis proposes two models that couple the electromagnetism and the fluid flow one realized using multiphysic software and the second by coupling two different softwares there are presented the advantages of the coupled models with respect to the results accuracy in comparison with electromagnetic models it is presented the evolution of velocity force and current densities profiles under the influence of the electromagnetic field and of different sodium mean velocities the contributions of the thesis are completed with significant observations related to the study methods and software tools used along the study process

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