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Collana	COMPEL ; ; v. 27, no. 2
Altri autori (Persone)	LupiSergio DughieroFebrizio BaakeEgbert
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Note generali	"This issue has a special section containing Selected papers from the International Conference on Heating by Electromagnetic sources."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Cover; CONTENTS; Editorial advisory board; Guest editorial; State of the art of numerical modeling for induction processes; Dynamic melting model for small samples in cold crucible; Numerical studies of the melting process in the induction furnace with cold crucible; Strategy of coupling to model physical phenomena within molten glass bath heated by direct induction; Modelling of EM glass convection; Magneto-thermal-motion coupling in transverse flux heating; Skin effect in toroidal conductors with circular cross-section; Numerical modeling of the controlled solidification process Thermal analysis of an eddy-current heated piece by means of the FEM-DBCImethodInductive modulated calorimetry: analytical model versus numerical simulation; Shunt active power filter implementation for induction heating applications; Three-dimensional eddy current analysis in unbounded domains by a DEM-BEM formulation;

	Electromagnetic and thermal analysis of the induction heating of aluminum billets rotating in DC magnetic field; DC induction heating of aluminum billets using superconducting magnets; Enhanced reactive NiAl coatings by microwave-assisted SHS Effect of PEG number on dielectric properties of paraffin-based PEG polymers at microwave frequenciesREGULAR PAPERS; Simplified robust adaptive control of a class of time-varying chaotic systems; Reconfiguration of impulse-voltage generator for conducting standard lightning tests; Fast response adaptive fuzzy logic controller for sensorless direct torque control of PMSM with minimum torque ripple; Evolutionary multi-objective design of non-uniform circular phased arrays
Sommario/riassunto	HES is becoming a traditional meeting for scientists and engineers dealing with the development and application of new methodologies for the solution of scientific and technical problems concerning the use of electromagnetic fields in the industrial heating and melting processes as well as in the electromagnetic processing of materials (EPM).