1. Record Nr. UNINA9910450707203321

Titolo	Ginzburg-Landau vortices [[electronic resource] /] / Haim Brezis, Tatsien Li
Pubbl/distr/stampa	Beijing, China, : Higher Education Press Singapore, : World Scientific Publishing, Co., c2005
ISBN	1-281-89694-2 9786611896942 981-270-118-4
Descrizione fisica	1 online resource (196 p.)
Collana	Series in contemporary applied mathematics ; ; 5
Altri autori (Persone)	BrezisH (Haim) LiDaqian
Disciplina	532.0595
Soggetti	Singularities (Mathematics) Mathematical physics Superconductors - Mathematics Superfluidity - Mathematics Differential equations, Nonlinear - Numerical solutions Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The "Ginzburg-Landau Vortices" School and Symposium ... was held during November 18-19, 2002 in Fudan University, Shanghai, China"--P. v.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; Contents; Bifurcation Problems for Ginzburg-Landau Equations and Applications to Bose-Einstein Condensates; Vortex Analysis of the Ginzburg-Landau Model of Superconductivity; On Singular Perturbation Problems Involving a "Circular-Well" Potential; Existence Results on Ginzburg-Landau Equations; A Survey on Ginzburg-Landau Vortices of Superconducting Thin Films*; On the Hydro-dynamic Limit of Ginzburg-Landau Wave Vortices; Singular Sets of the Landau-Lifshitz System*; Analysis of Ginzburg-Landau Models for Type I Superconductivity*; Ferromagnets and Landau-Lifshitz Equation
Sommario/riassunto	The Ginzburg-Landau equation as a mathematical model of superconductors has become an extremely useful tool in many areas of

	physics where vortices carrying a topological charge appear. The remarkable progress in the mathematical understanding of this equation involves a combined use of mathematical tools from many branches of mathematics. The Ginzburg-Landau model has been an amazing source of new problems and new ideas in analysis, geometry and topology. This collection will meet the urgent needs of the specialists, scholars and graduate students working in this area or related areas.

2.

Record Nr.	UNINA9910557530703321
Autore	Silva Francisco J. G
Titolo	Characterization of Welded Joints
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2020
Descrizione fisica	1 online resource (238 p.)
Soggetti	History of engineering and technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Welding remains one of the most studied manufacturing processes worldwide. It has always assumed a vital importance in terms of research, and the market demand for increasingly complex solutions has kept the search for new solutions around welding more and more alive. This book describes, in 14 chapters, recent investigations around various welding processes, showing new developments in important areas, such as biomedicine or the automotive industry. Following the current trend, several developments around the friction stir welding process are also described. However, other processes are also studied, and new interesting developments are presented. Problems normally felt in welding, such as the installation of internal stresses or the generation of defects are also studied, and very interesting solutions are provided. Thus, this book is of particular importance for a very wide

audience, ranging from the technician who is curious to want to know more and more, to the professor who seeks the latest developments in the matter to prepare his classes.