

1. Record Nr.	UNINA9910349320403321
Autore	Ivrii Victor
Titolo	Microlocal Analysis, Sharp Spectral Asymptotics and Applications IV : Magnetic Schrödinger Operator 2 // by Victor Ivrii
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-30545-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XXIII, 714 p. 1 illus.)
Disciplina	515
Soggetti	Mathematical analysis Analysis (Mathematics) Mathematical physics Analysis Mathematical Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Non-smooth theory and higher dimensions -- Irregular coefficients in dimensions 2, 3 -- Full-rank case -- Non-full-rank case -- 4D- Schrödinger with degenerating magnetic field -- 4D-Schrödinger Operator with the strong magnetic field -- Eigenvalue asymptotics for Schrödinger and dirac operators with the strong magnetic field -- Eigenvalue asymptotics: 2D case -- Eigenvalue asymptotics: 3D case.
Sommario/riassunto	The prime goal of this monograph, which comprises a total of five volumes, is to derive sharp spectral asymptotics for broad classes of partial differential operators using techniques from semiclassical microlocal analysis, in particular, propagation of singularities, and to subsequently use the variational estimates in “small” domains to consider domains with singularities of different kinds. In turn, the general theory (results and methods developed) is applied to the Magnetic Schrödinger operator, miscellaneous problems, and multiparticle quantum theory. In this volume the methods developed in Volumes I, II and III are applied to the Schrödinger and Dirac operators in non-smooth settings and in higher dimensions.