1. Record Nr. UNINA9910349320603321

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Titolo	Microlocal Analysis, Sharp Spectral Asymptotics and Applications II : Functional Methods and Eigenvalue Asymptotics / / by Victor Ivrii
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-30541-4
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIX, 525 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	Introduction -- Estimates of the spectrum -- Asymptotics of spectra.
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 local spectral asymptotics of Volume I in the regular part of the domain are combined with variational estimates in the vicinity of singularities, and global asymptotics are derived in the general form. They are then applied to multiple cases and asymptotics with respect to a spectral parameter. Finally, cases in which only general methods but not the results can be applied (non-standard asymptotics) are studied.