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| Autore                  | Guillemin Victor <1937->                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Titolo                  | Geometric asymptotics // by Victor Guillemin and Shlomo Sternberg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Descrizione fisica      | 1 online resource (500 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Collana                 | Mathematical surveys and monographs ; ; number 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Disciplina              | 516.3/6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Soggetti                | Geometry, Differential<br>Asymptotic expansions<br>Geometrical optics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Nota di contenuto       | ""TABLE OF CONTENTS""; ""PREFACE""; ""NOTATION""; ""CHAPTER I. INTRODUCTION. THE METHOD OF STATIONARY PHASE""; ""APPENDIX I. MORSE'S LEMMA AND SOME GENERALIZATIONS""; ""CHAPTER II. DIFFERENTIAL OPERATORS AND ASYMPTOTIC SOLUTIONS""; ""A1. Differential operators""; ""A2. Asymptotic sections""; ""A3. The LAnenburg-Lax-Ludwig technique""; ""A4. The methods of characteristics""; ""A5. Bi-characteristics""; ""A6. The transport equation""; ""A7. The Maslov cycle and the Bohr-Sommerfeld quantization conditions""; ""CHAPTER III. GEOMETRICAL OPTICS"" ""A1. The laws of refraction and reflection""""A2. Focusing and magnification""; ""A3. Hamilton's method""; ""A4. First order optics""; ""A5. The Seidel aberrations""; ""A6. The asymptotic solution of Maxwell's equations""; ""CHAPTER IV. SYMPLECTIC GEOMETRY""; ""A1. The Darboux-Weinstein theorem""; ""A2. Symplectic vector spaces""; ""A3. The cross index and the Maslov class""; ""A4. Functorial properties of Lagrangian submanifolds""; ""A5. Local parametrizations of Lagrangian submanifolds""; ""A6. Periodic Hamiltonian systems""; ""A7. Homogeneous symplectic spaces"" ""A8. Multisymplectic structures and the calculus of variations""""CHAPTER V. GEOMETRIC QUANTIZATION""; ""A1. Curvature forms and |

vector bundles"; ""A2. The group of automorphisms of an Hermitian line bundle"; ""A3. Polarizations"; ""A4. Metilinear manifolds and half forms"; ""A5. Metaplectic manifolds"; ""A6. The pairing of half form sections"; ""A7. The metaplectic representation"; ""A8. Some examples"; ""CHAPTER VI. GEOMETRIC ASPECTS OF DISTRIBUTIONS""; ""A1. Elementary functorial properties of distributions"; ""A2. Traces and characters"; ""A3. The wave front set""  
""A4. Lagrangian distributions """A5. The symbol calculus"; ""Appendix to Section 5""; ""A6. Fourier integral operators"; ""A7. The transport equation"; ""A8. Some applications to spectral theory"; ""APPENDIX TO CHAPTER VI. THE PLANCHEREL FORMULA FOR THE COMPLEX SEMI-SIMPLE LIE GROUPS"; ""CHAPTER VII. COMPOUND ASYMPTOTICS""; ""A0. Introduction""; ""A1. The asymptotic Fourier transform""; ""A2. The frequency set""; ""A3. Functorial properties of compound asymptotics""; ""A4. The symbol calculus""; ""A5. Pointwise behavior of compound asymptotics and Bernstein's theorem""  
""Appendix to Section 5 of Chapter VII""""A6. Behavior near caustics"";  
""A7. Iterated S<sub>(1)</sub> and S<sub>(2,0)</sub> singularities, computations"";  
""A8. Proofs of the normal forms""; ""A9. Behavior near caustics (continued)""; ""APPENDIX II. VARIOUS FUNCTORIAL CONSTRUCTIONS"";  
""A1. The category of smooth vector bundles""; ""A2. The fiber product""; ""INDEX""; ""A""; ""B""; ""C""; ""D""; ""E""; ""F""; ""G""; ""H""; ""I"";  
""K""; ""L""; ""M""; ""O""; ""P""; ""R""; ""S""; ""T""; ""U""; ""W""

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