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Autore	Lauter Robert <1967->
Titolo	Pseudodifferential analysis on conformally compact spaces / / [Robert Lauter]
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Descrizione fisica	1 online resource (114 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 777
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Soggetti	Pseudodifferential operators Compact spaces Manifolds (Mathematics) Electronic books.
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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di contenuto	""Contents""; ""Introduction""; ""Acknowledgments:""; ""Part 1. Predholm theory for 0-pseudodifferential operators""; ""Chapter 1. Review on basic objects of 0-geometry""; ""1.1. The 0-structure algebra""; ""1.2. The extended 0-blow up""; ""1.3. Relation to the 0-double space X[sup (2)][sub(0)]""; ""1.4. The extended 0-triple space X[sup(3)][sub(0,e)]""; ""1.5. 0-densities""; ""Chapter 2. The small 0-calculus and the 0-calculus with bounds""; ""2.1. The Schwartz kernel theorem revisited""; ""2.2. The small 0-calculus""; ""2.3. Basic properties of the small 0-calculus"" ""2.4. The 0-calculus with bounds""""2.5. Basic properties of the 0-calculus with bounds""; ""2.6. The indicial function""; ""2.7. General bundles""; ""Chapter 3. The b-c-calculus on an interval""; ""3.1. The b-c-structure algebra""; ""3.2. The b-c-double space""; ""3.3. b-c-densities""; ""3.4. The b-c calculus with bounds""; ""3.5. Basic properties of the b-c-calculus""; ""3.6. Fredholm theory for the b-c-calculus""; ""3.7. Invariance of the b-c-calculus under the R[sub(+)]-action""; ""3.8. C*-algebras of b-c-operators""; ""3.9. General

bundles""; ""Chapter 4. The reduced normal operator""
""4.1. Definition of the reduced normal operator""""4.2. Coordinate invariance of the reduced normal operator""; ""4.3. Scale invariance of the reduced normal operator""; ""4.4. Characterization of the reduced normal operator""; ""4.5. Basic properties of the reduced normal operator""; ""4.6. The case of 0-differential operators""; ""4.7. General bundles""; ""Chapter 5. Weighted 0-Sobolev spaces""; ""5.1. Boundedness of 0-operators of order 0 on L[sup(2)]-spaces""; ""5.2. Weighted 0-Sobolev spaces""; ""5.3. General bundles""; ""Chapter 6. Fredholm theory for 0-pseudodifferential operators""
""6.1. Symbol reproducing families""""6.2. Characterization of Fredholm operators in I?[sup(0)][sub(0)](X; [sup(0)]I©[sup(1/2)])""; ""6.3. Characterization of Fredholm operators inI?[sup(m,k)][sub(0)](X; [sup(0)] I©[sup(1/2)])""; ""6.4. General bundles""; ""Part 2. Algebras of 0-pseudodifferential operators of order 0""; ""Chapter 7. C*-algebras of 0-pseudodifferential operators""; ""7.1. Solvable C*-algebras""; ""7.2. The reduced normal operator on S*a??X""; ""7.3. Extension of the symbolic structure""; ""7.4. The C*-algebra generated by the reduced normal operator""
""7.5. The C*-algebra B[sup((a))][sub(0)](X,[sup(0)]I©[sup(1/2)])""""7.6. The spectrum of the C*-algebra B[sup((a))][sub(0)](X,[sup(0)]I©[sup (1/2)])""; ""Chapter 8. I?*-algebras of 0-pseudodifferential operators""; ""8.1. Submultiplicative I?*-algebras""; ""8.2. I?*-completions of b-c- and 0-calculus""; ""Appendix A. Spaces of conormal functions""; ""Bibliography""; ""Notations""; ""Index""; ""A""; ""B""; ""C""; ""D""; ""E""; ""F""; ""G""; ""H""; ""I""; ""J""; ""L""; ""M""; ""N""; ""O""; ""P""; ""R""; ""S""; ""T""; ""V""; ""W""

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Autore	Gustavo A. Lobos
Titolo	Plant Phenotyping and Phenomics for Plant Breeding
Pubbl/distr/stampa	Frontiers Media SA, 2018
Descrizione fisica	1 online resource (369 p.)
Collana	Frontiers Research Topics
Soggetti	Botany & plant sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	As a consequence of the global climate change, both the reduction on yield potential and the available surface area of cultivated species will compromise the production of food needed for a constant growing population. There is consensus about the significant gap between world food consumption projected for the coming decades and the expected crop yield-improvements, which are estimated to be insufficient to meet the demand. The complexity of this scenario will challenge breeders to develop cultivars that are better adapted to adverse environmental conditions, therefore incorporating a new set of morpho-physiological and physico-chemical traits; a large number of these traits have been found to be linked to heat and drought tolerance. Currently, the only reasonable way to satisfy all these demands is through acquisition of high-dimensional phenotypic data (high-throughput phenotyping), allowing researchers with a holistic comprehension of plant responses, or 'Phenomics'. Phenomics is still under development. This Research Topic aims to be a contribution to the progress of methodologies and analysis to help understand the performance of a genotype in a given environment.