

PROGRESS ON PSEUDODIFFERENTIAL OPERATORS

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Abstract

In this talk we give a brief review to pseudifferential operators together with a historical literature concerned and its usage in the theory of elliptic operators. A class of supersymbols which generalize the usual concept of symbols will be studied. Moreover for given minimal and maximal pseudo-differential operators, it is given necessary and sufficient conditions for which these operators can be Fredholm. A description of their essential spectrum has been obtained for operators of non-zero order.

Keywords: Pseudifferential operators, elliptic operators, Fredholm

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