



Volume 4, Issue 1, Article 9

Fundamental Inequalities on Firmly Stratified Sets and Some Applications

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Keywords: Poincaré's inequality, Korn's inequality, Multistructures.
Date Received: 13/05/02
Date Accepted: 11/10/02
Subject Codes: 35J50, 35R05, 35Q72.
Editors: [M. Zuhair Nashed](#),

Abstract: We establish different fundamental inequalities on a class of multistructures, more precisely Poincaré's inequality for second and fourth order (scalar) operators as well as Korn's inequality for the elasticity systems. Some consequences to the corresponding variational problems are deduced.



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