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**Atanas G. Stefanov\*** ([stefanov@ku.edu](mailto:stefanov@ku.edu)), Department of Mathematics, 1460, Jayhawk Blvd,  
Lawrence, KS 66045. *On pseudo-differential operators with rough symbols.*

We consider pseudo-differential operators with rough (not even continuous in general) symbols in the  $x$  variable. The  $L^p$  operator norms are estimated explicitly in terms of scale invariant quantities involving the symbols. Some applications will be discussed as well. (Received September 08, 2009)