

AN  $L^p$ -APPROACH TO THE WELL-POSEDNESS  
OF TRANSPORT EQUATIONS  
ASSOCIATED TO A REGULAR FIELD

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Well-posedness of transport equations with general external Lipschitz fields and general measures associated to a large variety of boundary conditions is investigated in  $L^p$ -spaces,  $1 < p < \infty$ . In particular a new explicit formula for the corresponding transport semigroup is given. Some applications are also presented.