

L. Arkeryd P. L. Lions

P. A. Markovich S. R. S. Varadhan (Eds.)

Nonequilibrium Problems in Many-Particle Systems

Lectures given at the 3rd Session of the Centro
Internazionale Matematico Estivo (C.I.M.E.)
held in Montecatini, Italy, June 15-27, 1992

Springer-Verlag

Berlin Heidelberg New York

London Paris Tokyo

Hong Kong Barcelona

Budapest

TABLE OF CONTENTS

C. CERCIGNANI - M. PULVIRENTI,	Nonequilibrium Problems in Many-Particle Systems. An Introduction	1
L. ARKERYD,	Some Examples of NSA in Kinetic Theory	14
P.L. LIONS,	Global Solutions of Kinetic Models and Related Problems	58
P.A. MARKOWICH,	Kinetic Models for Semiconductors	87
S.R.S. VARADHAN,	Entropy Methods in Hydrodynamic Scaling	112