

ATTRACTORS FOR SEMIGROUPS AND EVOLUTION EQUATIONS

In this volume, Olga A. Ladyzhenskaya expands on her highly successful 1991 Accademia Nazionale dei Lincei lectures. The lectures were devoted to questions of the behaviour of trajectories for semigroups of nonlinear bounded continuous operators in a locally non-compact metric space and for solutions of abstract evolution equations. The latter contain many initial boundary value problems for dissipative partial differential equations. This work, for which Ladyzhenskaya was awarded the Russian Academy of Sciences' Kovalevskaya Prize, reflects the high calibre of her lectures; it is essential reading for anyone interested in her approach to partial differential equations and dynamical systems.

This edition, reissued for her centenary, includes a new technical introduction, written by Gregory A. Seregin, Varga K. Kalantarov and Sergey V. Zelik, surveying Ladyzhenskaya's works in the field and subsequent developments influenced by her results.

Olga A. Ladyzhenskaya was a prolific Russian mathematician most well known for her work on partial differential equations and fluid mechanics. She authored over 200 hundred research works and became Head of the Mathematical Physics Laboratory of the Steklov Institute in 1961. Her many accolades include giving the Emmy Noether lecture at the International Congress of Mathematicians in 1994; giving the von Neumann lecture, the highest distinction of the Society for Industrial and Applied Mathematics, in 1998; and the Lomonosov Gold Medal, the highest award of the Russian Academy of Sciences, in 2002.

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ATTRACTORS FOR SEMIGROUPS AND EVOLUTION EQUATIONS

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