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Von Karman Evolution Equations: Well-posedness and Long Time Dynamics

By Irena Lasiecka

Springer-Verlag New York Inc. Paperback. Book Condition: New. Paperback. 770 pages. Dimensions: 9.2in. x 6.1in. x 1.8in. In the study of mathematical models that arise in the context of concrete applications, the following two questions are of fundamental importance: (i) well-posedness of the model, including existence and uniqueness of solutions; and (ii) qualitative properties of solutions. A positive answer to the first question, being of prime interest on purely mathematical grounds, also provides an important test of the viability of the model as a description of a given physical phenomenon. An answer or insight to the second question provides a wealth of information about the model, hence about the process it describes. Of particular interest are questions related to long-time behavior of solutions. Such an evolution property cannot be verified empirically, thus any a-priori information about the long-time asymptotics can be used in predicting an ultimate long-time response and dynamical behavior of solutions. In recent years, this set of investigations has attracted a great deal of attention. Consequent efforts have then resulted in the creation and infusion of new methods and new tools that have been responsible for carrying out a successful analysis of long-time...



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