

Book Review

Recent Advances in Heat Transfer

Proceedings of the First Baltic Heat Transfer Conference, Göteborg, Sweden, August 26–28, 1991

edited by B. Sundén, Chalmers University of Technology, Göteborg, Sweden

and A. Zakauskas, Lithuanian Academy of Sciences, Vilnius, Lithuania

Transport Processes in Engineering Volume 2

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This volume is the proceedings of the first conference of researchers and engineers of the Baltic area on the subject of heat transfer processes. It contains 100 finally accepted publications from Denmark, Estonia, Finland, Latvia, Lithuania, Poland, the St. Petersburg part of Russia, Sweden and from other countries.

The editors, also presenting papers, arranged this unique collection of presentations thematically into several chapters. Investigations dealing with the heat transfer processes of heat exchangers, boiler furnaces, evaporators, condensers, fluidized beds can be found in separate chapters. The most interesting chapters are about the cooling of electronics, heat transport affected by electromagnetic fields, and the thermal radiation itself. It is especially worth reading the articles describing the thermal processes of semiconductor chips, nuclear fuel rods and diesel engines.

Most of the studies combine the experimental and theoretical aspects of their field. They use numerical models and methods in order to get reliable description of the phenomena, and provide appropriate formulas useful in engineering design. Furthermore determination of thermophysical properties of solid materials may provide valuable information about their applicability for various purposes.

All the articles are written in English, escorted with good quality figures, tables and a large number of literature references. This volume contains an author index, but not a subject index. I recommend it to researchers and engineers interested in heat transport processes of mechanical, electronic, chemical and nuclear engineering.

János Madarász

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