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Heat transfer – a review of 2005 literature. (English) Zbl 1197.80002
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Summary: The present review is intended to encompass the heat transfer literature published in 2005. While of a wide-range in scope, some selection is inevitable. We restrict ourselves to papers published in English through a peer-review process, with selected translations from journals published in other languages. Papers from conference proceedings generally are not included, though the Proceeding itself may be cited in the introduction. A significant fraction of the papers reviewed herein relates to the science of heat transfer, including experimental, analytical and numerical studies. Other papers cover applications where heat transfer plays a major role, not only in man-made devices but in natural systems as well. The papers are grouped into major subject areas and then into subfields within these areas. In addition to reviewing the literature, we mention major conferences held in 2005, major awards related to heat transfer presented in 2005, and books on heat transfer published during the year.

MSC:

- 80-00 General reference works (handbooks, dictionaries, bibliographies, etc.) Cited in 2 Documents
pertaining to classical thermodynamics
- 80-02 Research exposition (monographs, survey articles) pertaining to classical thermodynamics
- 80-03 History of classical thermodynamics
- 01A90 Bibliographic studies

Keywords:

conduction; boundary layers; internal flows; porous media; heat transfer; experimental methods; natural convection; rotating flows; mass transfer; bio-heat transfer; melting; freezing; boiling; condensation; radiative heat transfer; numerical methods; transport properties; heat exchangers; solar energy; thermal plasmas

Software:

ROS3P

Full Text: [DOI](#)

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