HEAT TRANSFER BIBLIOGRAPHY-JAPANESE WORKS

TAKASHI SATŌ

Department of Mechanical Engineering, Kyoto University

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APPLICATION AND OUTLOOK

- N. ISSHIKI, Study of the effects of heaving and listing on thermal and hydraulic performance of water-cooled marine reactors, J. Japan Soc. Mech. Engrs 68, 553, 178 (1965).
- M. KOIZUMI and M. ICHIKAWA, Measurement of heat transfer to furnace-walls using a thermoelectric heat-flowmeter, J. Japan Soc. Mech. Engrs 68, 554, 322 (1965).
- Y. OKAMOTO and S. NEGOYA, High temperature loop test and experiment of finned fuel element, *Trans. Japan Soc. Mech. Engrs* **31**, 224, 615 (1965).
- Y. OKAMOTO, Temperature distribution and efficiency of fin with constant thickness (Part 1, A single sheet of plate or annular fin), *Trans. Japan Soc. Mech. Engrs* 31, 224, 624 (1965).
- H. TAKAHAMA and N. SOGA, Studies on vortex tubes (2nd Report, (1) Reynolds number; (2) The effects of the cold air rate and the partial admission of nozzle on the energy separation), *Trans. Japan Soc. Mech. Engrs* 31, 225, 787 (1965).
- Y. OKAMOTO, Temperature distribution and efficiency of a radiative and convective fin accompanied by internal heat source (Part 3, Characteristics of plate fin group-1), *Trans. Japan Soc. Mech. Engrs* **31**, 226, 964 (1965).
- Y. OKAMOTO, Temperature distribution and efficiency of a radiative and convective fin accompanied by internal heat source (Part 4, Characteristics of plate fin group-2), *Trans. Japan Soc. Mech. Engrs* 31, 226, 975 (1965).
- Y. SANO and S. NISHIKAWA, Effect of turbulence on the heat transfer of fine wire in isotropic turbulent flow, J. Chem. Engng Japan 29, 4, 250 (1965).

CHANNEL FLOW

- K. NISHIKAWA, Heat transfer to supercritical fluids, J. Japan Soc. Mech. Engrs 68, 552, 28 (1965).
- M. HISHIDA, Temperature distribution in the entrance region of a circular pipe, *Trans. Japan Soc. Mech. Engrs* 31, 222, 233 (1965).
- O. KUGA, Laminar flow heat transfer in circular tubes with non-isothermal surfaces, *Trans. Japan Soc. Mech. Engrs* **31**, 222, 295 (1965).
- T. YAMAMURA and S. YAMAZAKI, Heat transfer of rotating surfaces of cylinders in annular gaps with axial air flow, *Trans. Japan Soc. Mech. Engrs* **31**, 223, 427 (1965).
- S. AOKI, T. TAKAHASHI and A. INOUE, Fundamental study on the pressure drop in a two-phase flow in a pipe, *Trans. Japan Soc. Mech. Engrs* 31, 224, 588 (1965).

- H. OGASAWARA, Theoretical study on two-phase critical flow (1st Report, Relation to sound velocity and analytical treatment as homogeneous flow), *Trans. Japan Soc. Mech. Engrs* **31**, 225, 751 (1965).
- M. HASHIZUME, H. OKAMOTO and Y. MOTOKI, Heat transfer in direct contact with thermal media (Case of non-boiling liquid system), J. Chem. Engng Japan 29, 1, 2 (1965).
- H. YOSHITOME, Y. MANNAMI, K. MUKAI and T. FUJITANI, Heat transfer in bubble bed—Air-water system, J. Chem. Engng Japan 29, 1, 19 (1965).

CHANGE OF PHASE

- K. TORIKAI and T. YAMAZAKI, The contact area of boiling bubbles on the heating surface, *Trans. Japan Soc. Mech. Engrs* **31**, 223, 440 (1965).
- K. TORIKAI and T. YAMAZAKI, Variation of boiling heat transfer caused by generation of bubbles, *Trans. Japan Soc. Mech. Engrs* **31**, 223, 450 (1965).
- M. AKIYAMA, Spherical bubble collapse in uniformly subcooled liquid, *Trans. Japan Soc. Mech. Engrs* 31, 223, 458 (1965).
- K. AKAGAWA and T. SAKAGUCHI, Fluctuation of void ratio in a two-phase flow (2nd Report, Analysis of flow configuration considering the existence of small bubbles in liquid slugs), *Trans. Japan Soc. Mech. Engrs* 31, 224, 594 (1965).
- K. AKAGAWA and T. SAKAGUCHI, Fluctuation of void ratio in a two-phase flow (3rd Report, Absolute velocities of slugs and small bubbles), *Trans. Japan Soc. Mech. Engrs* **31**, 224, 601 (1965).
- K. AKAGAWA and T. SAKAGUCHI, Fluctuation of void ratio in a two-phase flow (4th Report, Small bubbles in liquid slugs), *Trans. Japan Soc. Mech. Engrs* **31**, 224, 608 (1965).
- K. NISHIKAWA and T. ITO, Two-phase boundary layer treatment of free-convection film boiling, *Trans. Japan Soc. Mech. Engrs* **31**, 226, 984 (1965).
- K. NISHIKAWA and T. ITO, Two-phase boundary layer treatment of forced-convection film boiling, *Trans. Japan Soc. Mech. Engrs* **31**, 226, 992 (1965).

FLOW WITH SEPARATED REGIONS

Y. KITAURA, H. TANAKA, K. HARADA and K. ARAI, Boundary layer transition and particle-to-fluid mass transfer in packed bed, J. Chem. Engng Japan 29, 3, 146 (1965)

RADIATION

- Y OKAMOTO, An analysis of radiation-interchange configuration factor, *Trans. Japan Soc. Mech. Engrs* 31, 226, 958 (1965).
- T. SATO and T. KUNITOMO, Radiation from fine particle clouds in high temperature combustion gas, *Mem. Fac. Engng Kyoto Univ.* 27, 1, 75 (1965).

TRANSPIRATION AND MASS TRANSFER

M. HIRATA, A review of current literature on heat transfer of a boundary layer with fluid injection, J. Japan Soc. Mech. Engrs 68, 558, 883 (1965)

- S. KIKKAWA and Y. NAKATANI, The experimental investigation on the transpiration cooling, *Trans. Japan Soc. Mech. Engrs* **31**, 223, 434 (1965).
- R. TOEI, S. HAYASHI, S. SAWADA and K. YOKOMICHI, Temperature distribution of the bed of granular and powdered materials during the second falling rate period, J. Chem. Engng Japan 29, 1, 25 (1965).
- H. SAITO and T. KOBAYASHI, Mass transfer from solid particles to liquid suspended in a bubble column, J. Chem. Engng Japan 29, 4, 237 (1965).
- R. TOEI and S. HAYASHI, The liquid fraction of moisture transfer in the drying process of a bed of granular and powdered materials, *Mem. Fac. Engng Kyoto Univ.* 27, 2, 218 (1965).