

HEAT AND MASS BIBLIOGRAPHY—JAPANESE WORKS

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APPLICATION AND OUTLOOK

- H. TAKAHAMA, Energy separation of gas by vortex tube, *J. Japan Soc. Mech. Engrs* **68**, 560, 1255 (1965).
R. IZUMI, On the drying plant of large scale for rice centre, *J. Japan Soc. Mech. Engrs* **68**, 560, 1308 (1965).
M. HORI, High-temperature liquid-metal heat transfer, *J. Japan Soc. Mech. Engrs* **68**, 563, 1665 (1965).
T. KAWAI, N. KAMO and M. NAKATANI, Study on application of dropwise condensation to steam condensers (1st Rep., Experiment on behavior of single water drop on inclined surface), *Trans. Japan Soc. Mech. Engrs* **31**, 229, 1355 (1965).

CHANNEL FLOW

- M. HISHIDA, Heat transfer in the entrance region of a circular pipe, *Trans. Japan Soc. Mech. Engrs* **31**, 227, 1146 (1965).

CONVECTIVE HEAT TRANSFER

- R. SHIMOMURA, Heat transfer between a rotating horizontal cylinder and a jet of air impinging on it, *Trans. Japan Soc. Mech. Engrs* **31**, 227, 1154 (1965).
Y. KITAURA and Y. NAGASE, On the turbulent flow of Newtonian and Bingham in pipe, *Chem. Engng Japan* **29**, 10, 784 (1965).
N. YOSHIOKA and R. NAKAMURA, On the creeping flow of generalized Newtonian fluid around a sphere, *Chem. Engng Japan* **29**, 10, 791 (1965).
T. TSUBOUCHI, T. SATO and H. MASUDA, Effect of Prandtl number on the natural convective heat transfer of a small particle, *Mem. Inst. High Speed Mech. Tohoku Univ.* **20**, 198, 141 (1964/1965).
T. TUBOUCHI and H. MASUDA, Heat transfer between single particle and various fluids in relative forced convection, *Rep. Inst. High Speed Mech. Tohoku Univ.* **16**, 156, 119 (1964/1965).
S. AKAGI, A perturbation theory on laminar free convection about a horizontal cylinder, *Trans. Japan Soc. Mech. Engrs* **31**, 229, 1327 (1965).
Y. MORI and Y. UCHIDA, Study on forced convective heat transfer between horizontal flat plates (Effect of longitudinal vortex rolls), *Trans. Japan Soc. Mech. Engrs* **31**, 230, 1511 (1965).
Y. MORI and W. NAKAYAMA, Study on forced convective

heat transfer in curved pipes (2nd Rep. Turbulent Region), *Trans. Japan Soc. Mech. Engrs* **31**, 230, 1521 (1965).

CHANGE OF PHASE

- N. KAWAE and K. YAMAGATA, Characteristics of static stability in an evaporating downward flow, *Trans. Japan Soc. Mech. Engrs* **31**, 227, 1172 (1965).
S. ISHIGAI and T. KUNO, An experimental study of transition boiling of water on the vertical wall in an open vessel, *Trans. Japan Soc. Mech. Engrs* **31**, 228, 1251 (1965).
I. HIRAKI, K. YOSHIDA and D. KUNI, Behavior of bubbles in a two-dimensional fluidized bed, *Chem. Engng Japan* **29**, 11, 846 (1965).
S. KOTAKE, On the mechanism of nucleate boiling, *Trans. Japan Soc. Mech. Engrs* **31**, 231, 1702 (1965).

MASS TRANSFER

- J. YAMADA and M. JIDO, Studies on film cooling, *Trans. Japan Soc. Mech. Engrs* **31**, 227, 1134 (1965).
R. TŌEI, S. HAYASHI, S. SAWADA and T. FUJITANI, Liquid fraction of moisture transfer in the drying process of bed of granular and powdered materials, *Chem. Engng Japan* **29**, 7, 525 (1965).
T. KOMORI and E. HIRAI, Liquid film mass transfer coefficient in the packed absorption column, *Chem. Engng Japan* **29**, 7, 532 (1965).
R. TŌEI, S. HAYASHI and T. FUJITANI, Analysis of drying rate of bed of granular and powdered materials during the falling period, *Chem. Engng Japan* **29**, 10, 771 (1965).
K. KAWAMURA, T. SASANO and A. MIFUNE, Solid-liquid contact in a gas-liquid-solid fluidized bed, *Chem. Engng Japan* **29**, 9, 693 (1965).
R. TŌEI 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).
R. TŌEI and S. HAYASHI, Analysis of the drying rate during the falling rate period in the drying of a bed of granular and powdered materials, *Mem. Fac. Engng Kyoto Univ.* **27**, 3, 303 (1965).

PACKED AND FLUIDIZED BEDS

- T. SHIRAI, H. YOSHITOME, Y. SHOJI, K. HŌJŌ and S. YOSHIDA,

- Heat and mass transfer on the surface of solid spheres fixed within fluidized bed, *Chem. Engng Japan* **29**, 11, 880, (1965).
- K. HASHIMOTO, N. SUZUKI, M. TERAMOTO and S. NAGATA, Heat transfer in packed beds, *Chem. Engng Japan* **29**, 9, 672 (1965).
- K. HASHIMOTO, K. YAMAMOTO, O. NAGAI and S. NAGATA, Overall heat-transfer coefficient in fixed bed catalytic reactors, *Chem. Engng Japan* **29**, 9, 676 (1965).
- transfer to wires in a partially ionized argon plasma, *Trans. Japan Soc. Mech. Engrs* **31**, 227, 1163 (1965).

RADIANT HEAT TRANSFER

- Y. MORI and Y. KUROSAKI, Heat transfer by radiation and other transport mechanism (1st Rep. Couette flow with simultaneous radiation and conduction), *Trans. Japan Soc. Mech. Engrs* **31**, 230, 1501 (1965).

MEASUREMENT TECHNIQUE

- A. KANAZAWA and I. KIMURA, Experimental studies of heat
- Y. SAKURAI, K. ISOZUMI, K. MORI and K. KAKEZAWA, Capacitance type void meter, *J. Atom. Energy Soc. Japan* **7**, 2, 64 (1965).