

Bibliography

- [1] Y. Sone and H. Sugimoto, *Strong Evaporation from a Plane Condensed Phase*, In: Adiabatic waves in liquid-vapor system, eds. P. A. Thompson and G. E. A. Meier, pp. 293–304, Berlin: Springer-Verlg, (1990)
- [2] Y. P. Pao, *Application of Kinetic Theory to the Problem of Evaporation and Condensation*, Phys. Fluids, 14, pp. 306–312, (1971)
- [3] Y. P. Pao, *Temperature and Density Jumps in the Kinetic Theory of Gases and Vapors*, Phys. Fluids, 14, pp. 1340–1346, (1971)
- [4] J. W. Cipolla Jr., H. Lang and S. K. Loyalka, *Kinetic Theory of Condensation and Evaporation. II*, J. Chem. Phys., 61, pp. 69–77, (1974)
- [5] Y. Sone and Y. Onishi, *Kinetic Theory of Evaporation and Condensation*, J. Phy. Soc. Japan, 35, pp. 1773–1776, (1973)
- [6] Y. Sone and Y. Onishi, *Kinetic Theory of Evaporation and Condensation –Hydrodynamic Equation and Slip Boundary Condition–*, J. Phy. Soc. Japan, 44, pp. 1981–1994, (1978)
- [7] Y. Onishi and Y. Sone, *Kinetic Theory of Slightly Strong Evaporation and Condensation –Hydrodynamic Equation and Slip Boundary Condition for Finite Reynolds Number–*, J. Phy. Soc. Japan, 47, pp. 1676–1685, (1979)
- [8] T. Matsushita, *Kinetic Analysis of the Problem of Evaporation and Condensation*, Phys. Fluids, 19, pp. 1712–1715, (1976)
- [9] R. R. Adt, G. N. Hatsopoulos and W. J. Bornhorst, *A Steady the Liquid Vapor Phase Change of Mercury Based on Irreversible Thermo dynamics*, J. Heat Transfer, 94, pp. 257–261, (1972)

- [10] P. N. Shanker and M. D. Deshpande, *On the Temperature Distribution in Liquid Vapor Phase Change Between Plane Liquid Surface*, Phys. Fluids, A2, pp. 1030–1038, (1990)
- [11] P. N. Shanker and F. E. Marble, *Kinetic Theory of Transient Condensation and Evaporation at a Plane Surface*, Phys. Fluids, 14, pp. 510–516, (1971)
- [12] Y. Onishi and H. Miura, *Propagation of a Shock Wave Through a Gas Mixture due to Strong Evaporation from a Plane Condensed Phase*, In: Shock Wave @ Marseille, eds. R. Brun and L. Z. Dumitrescu, Vol. 3, pp. 119–124, Berlin: Springer-Verlg, (1995)
- [13] G. M. Pound, *Selected Values of Evaporation and Condensation Coefficients for Simple Substances*, J. Chem. Ref. Data, 1.1, pp. 135–146, (1972)
- [14] S. F. Chekmarev, *Effect of Condensation Heat on the Condensation Coefficient*, AIChE Journal, 42, pp. 2467–2474, (1996)
- [15] I. W. Eames, N. J. Marr and H. Sabir, *The Evaporation Coefficient of Water: a Review*, Int. J. Heat Mass Transfer, 40, pp. 2963–2973, (1997)
- [16] Y. S. Huang, F. A. Lyman and W. J. Lick, *Heat Transfer by Condensation of Low Pressure Metal Vapors*, Int. J. Heat Mass Transfer, 15, pp. 741–754, (1972)
- [17] D. R. Haynes, N. J. Tro and S. M. George, *Condensation and Evaporation on H_2O on Ice Surface*, J. Phys. Chem., 96, pp. 8502–8509 (1992)
- [18] K. Yasuoka, M. Matsumoto and Y. Kataoka, *Evaporation and Condensation at a Liquid Surface. I. Argon*, J. Phys. Chem., 101, pp. 7904–7911, (1994)
- [19] M. Matsumoto, K. Yasuoka and Y. Kataoka, *Evaporation and Condensation at a Liquid Surface. II. Methanol*, J. Phys. Chem., 101, pp. 7912–7917, (1994)
- [20] K. R. Atkins, B. Rosenbaum and H. Seki, *Evaporation Effects During Superflow of Liquid Helium II*, Phys. Rev., 113, pp. 751–754, (1959)
- [21] G. H. Hunter and D. V. Osborne, *The Condensation Coefficient of Liquid Helium II*, J. Phys., C2, pp. 2414–2424, (1969)

- [22] W. D. Kessler and D. V. Osborne, *Sound Transformation at the Free surface of Liquid Helium II*, J. Phys., C13, pp. 1571–1579, (1980)
- [23] D. Brandt and K. Keck, *Sound Transmission at Liquid He Interface*, Phys. Letters, 32A, pp. 61–62, (1970)
- [24] H. Wiechert and F. I. Buchholz, *Experimental Tests of Boundary Conditions at the Free Surface of Liquid Helium*, Liquid and Solid Helium, Proc. EPS Topical Conf., Haifa, eds. C. H. Kuper and M. Revzen, pp. 293–299, (1974)
- [25] H. Wiechert and F. I. Buchholz, *Sound Conversion Phenomena at the Free Surface of Liquid Helium. II. Experimental Determination of Acoustic Coefficients and Surface Absorption Coefficients*, J. Low Temp. Phys., 51, pp. 291–318, (1983)
- [26] J. R. Pellam, *Wave Transmission and Reflection Phenomena in Liquid Helium II*, Phys. Rev., 73, pp. 608–617, (1948)
- [27] Dingle, Proc. Phys. Soc., A61, p. 9, (1948)
- [28] D. M. Chernikova, *Reflection and Transformation of Sound Wave Incident on a Vapor-Liquid He II Boundary*, JETP, 20, pp. 358–361, (1965)
- [29] D. V. Osborne, *Liquid-Vapor Equilibrium in Helium II*, Proc. Phys. Soc., 80, pp. 103–109, (1962)
- [30] L. Meinholt-Heerlein, *Surface Conditions for the Liquid-Vapor System, Taking into Account Entropy Production caused by Mass and Energy Transport across the Interface*, Phys. Rev., A8, pp. 2574–2585, (1973)
- [31] H. Wiechert and F. I. Buchholz, *Sound Conversion Phenomena at the Free Surface of Liquid Helium. I. Calculation of the Coefficients of Reflection, Transmission, and Transformation of Sound Wave incident on Liquid-Vapor Interface of Helium*, J. Low Temp. Phys., 39, pp. 623–646, (1979)
- [32] H. Wiechert, *Boundary Conditions for the Liquid-Vapor Interface of Helium II*, J. Phys. C9, pp. 553–569, (1976)
- [33] F. I. Buchholz, D. Brandt and H. Wiechert, *Sound Reflection on a Liquid He II Surface*, Phys. Letters, 35A, pp. 471–472, (1971)

- [34] D. M. Moody, *I. Numerical Solution of the Superfluid Shock Jump Conditions, II. Experimental Investigation of the Liquid Helium II-Vapor interface*, Ph. D. thesis, California Institute of Technology, (1983)
- [35] L. Tisza, Nature, 141, p. 913, (1938)
- [36] L. D. Landau, *The Theory of Superfluidity of Helium II*, J. of Phys. USSR, 5, pp. 71–89, (1941)
- [37] A. F. G. Wyatt, M. A. H. Tucker and R. F. Cregan, *Reflectivity of ^4He Atom from Liquid ^4He : Direct Observation of the Effect of Phonons and Rotons*, Phys. Rev. Lett., 26, pp. 5236–5239, (1995)
- [38] M. Brown and A. F. G. Wyatt, *The Surface Boundary Conditions for Quantum Evaporation in ^4He* , J. Phys: Condens Matter, 2, pp. 5025–5046, (1990)
- [39] A. F. G. Wyatt, *Evaporation of Liquid ^4He ; A Quantum Process*, Physica B, 126, pp. 392–399, (1984)
- [40] E. F. Lifshitz, *Radiation of Sound in Helium II*, J. of Phys. USSR, 8, pp. 110–113, (1944)
- [41] L. D. Landau and E. F. Lifshitz, *Fluid Mechanics*, 2nd ed., pp. 515–535, Butterworth-Heinemann, (1987)
- [42] I. M. Khalatnikov, *An Introduction to the Theory of Superfluidity*, pp. 81–87, New York: W. A. Benjamin Inc., (1965)
- [43] J. Maynard, *Determination of the Thermodynamics of He II from Sound-Velocity Data*, Phys. Rev., B14, pp. 3868–3891, (1976)
- [44] J. R. Torczynski, *On the Interaction of Second Sound Shock Wave and Vorticity in Superfluid Helium*, Phys. Fluids, 27, pp. 2636–2644, (1984)
- [45] J. R. Torczynski, *Shock-vortex interaction in Superfluid Helium*, Phys. Rev. B, 39, pp. 2165–2172, (1988)
- [46] R. J. Donnelly and C. E. Swanson, *Quantum Turbulence*, J. Fluid Mech., 137, pp. 387–429, (1986)
- [47] T. Shimazaki, M. Murakami and T. Iida, *Second Sound Wave Heat Transfer, Thermal Boundary Layer Formation and Boiling: Highly*

- Transient Heat Transport Phenomena in H II*, Cryogenics, 35, pp. 645–651, (1995)
- [48] H. Borner, T. Schmeling and D. W. Schmidt, *Experimental Investigations on Fast Gold-Tin Metal Film Second-Sound Detectors and Their Application*, J. Low Temp. Phys., 50, pp. 405–426, (1983)
- [49] M. V. Schwerdtner, W. Poppe and D.W. Scmidt, *Distortion of Temperature Signals in He II due to Probe Geometry, and a New Improved Probe*, Cryogenics, 29, pp. 132–134, (1988)
- [50] T. Iida, M. Murakami and H. Nagai, *Visualization Study on the Thermohydrodynamic Phenomena Induced by Pulsative Heating in He II by the use of a Laser Holographic Interferometer*, Cryogenics, 36, pp. 943–949, (1996)
- [51] L. D. Landau and E. F. Lifshitz, *Fluid Mechanics*, 2nd ed., pp. 325–330, Oxford: Butterworth-Heinemann, (1987)
- [52] Y. Sone and K. Aoki, *Molecular Gas Dynamics*, pp. 82–91, Japan: Asakura Pub. Inc., (1994)
- [53] R. F. Brown, D. M. Trayer and M. R. Rusby, *Condensation of 300–2500 K Gases on Surface at Cryogenic Temperatures*, J. Vac. Sci. Technol. 7, pp. 241–246, (1969)
- [54] T. Furukawa and M. Murakami, *Transient Evaporation Phenomena Induced by Impingement of a Second Sound on a Superfluid Helium-Vapor Interface*, in *Rarefied Gas Dynamics Vol. 1*, eds. R. Brun, R. Campargue, R. Gatignol and J. C. Lengrand, pp. 519–516, Toulouse: Cépadués-Éditions, (1999)
- [55] Y. Sone, *Private Communication*, (1999)
- [56] Y. Onishi, *Private Communication*, (1999)
- [57] K. Tsubata and Y. Onishi, *Formation and Propagation of a Shock Wave Associated with Evaporation Process*, In: Proc. JSME 77th Fluids Engineering Division Conference, pp. 111–112, Japan: JSME, (1999)
- [58] V. U. Nayak, D. O. Edwards, and N. Masuhara, *Scattering of ^4He Atoms Grazing the Liquid- ^4He Surface*, Phys. Rev. Lett, 28, pp. 990–992, (1983)

- [59] S. R. DE Groot and P. Mazur, *Non-Equilibrium Thermodynamics*, Amsterdam: North-Holland Publishing Company, (1963)
- [60] I. M. Khalatnikov, *An Introduction to the Theory of Superfluidity*, pp. 55–66, New York: W. A. Benjamin Inc., (1965)
- [61] I. M. Khalatnikov, *An Introduction to the Theory of Superfluidity*, pp. 74–77, New York: W. A. Benjamin Inc., (1965)
- [62] S. Fujikawa and M. Kotani, *The Molecular Mechanism of Evaporation-Condensation and Condensation Coefficient*, Japanese J. Multiphase Flow, 12, pp. 225–232, (1998)