

DAFTAR PUSTAKA

- Agostini, B., Revellin, R., & Thome, J. R. (2008). Elongated bubbles in microchannels. Part I: Experimental study and modeling of elongated bubble velocity. *International Journal of Multiphase Flow* 34, 590-601.
- Armand, A., & Treschev, G. (1946). The resistance during the movement of a two phase system in horizontal pipes. *Izvestia Vses. Teplotekh. Inst. 1*, 16-23.
- Baker, O. (1953). Design of pipelines for the simultaneous flow of oil and gas. *Society of Petroleum Engineers - Fall Meeting of the Petroleum Branch of AIME, FM 1953*, 323-G.
- Barnea, D., Luninsky, Y., & Taitel, Y. (1983). Flow pattern in horizontal and vertical two phase flow in small diameter pipes. *Can. J. Chemical Engineering Vol. 61 (5)*, 617-620.
- Boger, D., & Cable, P. (1977). An anomalous effect in the measurement of normal stresses in polyacrylamide solutions. *Rheol Acta* 16, 322-323.
- Chhabra, R., Farooqi, S., & Richardson, J. (1984). Isothermal two-phase flow of air and aqueous polymer solutions. *Chem. Eng. Res. Des.* 62, 22-32.
- Chisholm, D., & Laird, A. (1958). Two-phase flow in rough tubes. *Trans. ASME* 80(2), 276-286.
- Damianides, C. A., & Westwater, J. W. (1988). Two-Phase Patterns in a Compact Heat Exchanger and in Small Tubes. *Proc. 2nd UK National Conference on Heat Transfer*, 1257-1268.
- Ekberg, N. (1997). Two-Phase Flow Regime Maps and Pressure Drop in Microchannels. *Master Thesis*.
- Feng, K., & Zhang, H. (2021). Pressure drop and flow pattern of gas-non-Newtonian fluid two-phase flow in a square microchannel. *Chemical Engineering Research and Design*, 158-169.

- Feng, Z., & Serizawa, A. (2000). Two-Phase Flow Patterns in an Ultra-Small-Scale Flowing Passage. *Symposium on Energy Engineering Volume 2*, 643-649.
- Fukano, T., Kariyasaki, A., & Kagawa, M. (1989). Flow Patterns and Pressure Drop in Isothermal Gas-Liquid Cocurrent Flow in a Horizontal Capillary Tube. *ANS Proc. National Heat Transfer Conference: Technical Sessions*, 153-161.
- Hassan, I., Vaillancourt, M., & Pehlivan, K. (2005). Two-phase flow regime transitions in microchannels: A comparative experimental study. *Microscale Thermophysical Engineering*, 165-182.
- Hughes, A., Mattinson, J., Powderly, J., Greene, B., & King, M. (2012). Rapid isolation of viable circulating tumor cells from patient blood samples. *J. Vis. Exp.* 64, 42-48.
- Hwang, Y., & Kim, M. (2006). The pressure drop in microtubes and the correlation development. *International Journal Heat Mass Transfer* 49 (11-12), 1804-1812.
- Ide, H., Kariyasaki, A., & Fukano, T. (2007). Fundamental data on the gas-liquid twophase flow in minichannels. *International Journal Therm. Sci.* 46, 519-530.
- Kandlikar, S. G., Garimella, S., Li, D., Colin, S., & King, M. R. (2014). *Heat Transfer and Fluid Flow in Minichannels and Microchannels*. Massachusetts: Elsevier.
- Kariyasaki, A., Fukano, T., Ousaka, A., & Kagawa, M. (1991). Characteristics of time-varying void fraction in isothermal air-water cocurrent flow in horizontal capillary tube. *Trans JSME* 57 (554), 4036-4043.
- Kawahara, A., Chung, P.-Y., & Kawaji, M. (2002). Investigation of Two-Phase Flow Patterns, Void Fraction and Pressure Drop in a Microchannel. *International Journal of Multiphase Flow* Vol.28, 1411-1435.

- Kawahara, A., Sadatomi, M., Nei, K., & Matsuo, H. (2011). Characteristics of two-phase flows in a rectangular microchannel with a T-junction type gas-liquid mixer. *Heat Transfer Engineering* 32, 585-594.
- Kawahara, A., Yonemoto, Y., & Arakaki, Y. (2020). Pressure Drop for Gas and Polymer Aqueous Solution Two-Phase Flows in Horizontal Circular Microchannel. *Flow Turbulence Combust*, 1325-1344.
- Kawaji, M., & Chung, P. M. (2004). Adiabatic gas-liquid flow in microchannels. *Microscale Thermophysical Engineering*, 239-257.
- Kozicki, W., Chou, C. H., & Tiu, C. (1966). Non-Newtonian flow in ducts of arbitrary cross-sectional shape. *Chemical Engineering Science*, 665-679.
- Lockhart, R., & Martinelli, R. (1949). Proposed Correlation of Data for Isothermal Two-Phase, Two-Component Flow in Pipes. *Chemical Engineering Process*, 39-48.
- Mandhane, Gregory, & Aziz. (1974). A Flow Pattern Map For Gas-Liquid Flow in Horizontal Pipes. *International Journal Multiphase Flow*, 537-553.
- Mansour, M., Kawahara, A., & Sadatomi, M. (2015). Experimental Investigation of Gas-non-newtonian Liquid Two-Phase Flows from T-Junction Mixer in Rectangular Microchannel. *International Journal Multiphase Flow* 72, 263-274.
- McAndrew, A. (2015). *A Computational Introduction to Digital Image Processing, Second Edition*. New York: CRC Press.
- Mishima, K., & Hibiki, T. (1996). Some characteristics of air-water two phase flow in small diameter vertical tubes. *International Journal Multiphase Flow* 22, 703-712.
- Munson, B. R., Young, D. F., & Okiishi, T. H. (2002). *Fundamentals of Fluid Mechanics*. New York: John Willey & Sons, Inc.

- Ohta, M., Yoshida, Y., & Sussman, M. (2010). A computational study of the dynamic motion of a bubble rising in Carreau model fluids. *Fluid Dyn. Res.* , 42 025501.
- Pehlivan, K. (2003). Experimental Study on Two-Phase Flow Regimes and Pressure Drop in Mini- and Micro-Channels. *Master Thesis*. Montreal, Quebec, Canada: Concordia University.
- Revellin, R., & Thome, P. (2006). Experimental Two-Phase Fluid Flow in Microchannels. *International Swiss Federal Institute of Technology Lausanne Vol.3437*.
- Santos, R. M., & Kawaji, M. (2010). Numerical modeling and experimental investigation of gas–liquid slug formation in a microchannel T-junction. *International Journal of Multiphase Flow*, 314-323.
- Serizawa, A., Feng, Z., & Kawara, Z. (2002). Two-phase flow in microchannels. *Experimental Thermal and Fluid Science* 26, 703-714.
- Shao, N., Gavriilidis, A., & Angeli, P. (2009). Flow regimes for adiabatic gas–liquid flow in microchannels. *Chemical Engineering Science* 64, 2749-2761.
- Sousa, R., Reithmuller, M., Pinto, M., & Campos, J. (2006). Flow around individual Taylor bubbles rising in stagnant polyacrylamide (PAA) solutions. *J. Non-Newton. Fluid Mech.* 135, 16-31.
- Triplett, K., Ghiaasiaan, S., Abdel-Khalik, S., & Sdowski, D. (1999). Gas-Liquid Two Phase Flow in Microchannels Part I: Two-Phase Flow Patterns. *International Journal of Multiphase Flow Vol.25*, 377-394.
- Widyatama, A., Dinaryanto, O., Indarto, & Deendarlianto. (2018). The development of image processing technique to study the interfacial behavior of air-water slug two-phase flow in horizontal pipes. *Flow Measurement and Instrumentation*, 168-180.

- Yang, C.-Y., & Shieh, C.-C. (2001). *International Journal Multiphase Flow* 27 (7), 1163-1177.
- Yang, Z., Bi, Q., Liu, B., & Huang, K. (2010). Nitrogen/non-newtonian Fluid Two-Phase upward flow in non-circular microchannels. *International Journal Multiphase Flow* 36, 60-70.
- Zhang, T., Cao, B., Yilin, F., Gonthier, Y., Luo, L., & Wang, S. (2011). Gas-liquid flow in circular microchannel. Part I : Influence of liquid physical properties and channel diameter on flow patterns. *Chemical Engineering Science* 66, 5791-5803.