



## DAFTAR PUSTAKA

- API. (2002). *Axial and Centrifugal Compressors and Expander-compressors for Petroleum, Chemical and Gas Industry Services*. Api 617, API Standard 617, Seventh Edition. API. (2007). *Welded Steel Tanks for Oil Storage*.
- Aries, R. S., and Newton, R. D., 1955, *Chemical Engineering Cost Estimation*, McGraw-Hill, New York.
- ASME (American Society of Mechanical Engineers). (2015). *ASME Boiler and Pressure Vessel Code*. Asme Boiler and Pressure Vessel Code.
- Badan Pusat Statistik. (2023). *Statistik Indonesia 2023*. Jakarta: Badan Pusat Statistik.
- Belkaoui, A. R. (1993). *Accounting theory* (3rd ed.). London: Academic Press.
- Brigham, E. F., & Houston, J. F. (2003). *Fundamentals of financial management* (10th ed.). Mason, OH: South-Western College Publishing.
- Bouchard, M, (1970), "Preparation of Polyvinyl Acetate Adhesive Emulsion", US Patent 3497521.
- Brandrup, J., Immagut, E.H., (1975), "Polymer Handbook", 2nd ed., John Wiley and Sons, New York.
- Brown, G. G., Katz, D., Foust, A. S., and Schneidewind, C., (1950), "Unit Operation", John Wiley and Sons, Inc., New York.
- Brown, G. G., Katz, D., Foust, A. S., and Schneidewind, C., 1950, "Unit Operation", John Wiley and Sons, Inc., New York.
- Brown, G.G. (1950). *Unit Operations*. John Wiley & Sons, Inc.
- Brownell, L.E. and Young, E.H. (1979). *Process Equipment Design*. John Wiley and Sons Inc. New York
- Brownell, L.E. and Young, E.H. (1979). *Process Equipment Design*. John Wiley and Sons Inc. New York.
- Contreras, J. P., Naranjo, J. C., Ramírez, S., Martínez, D. M., & Gil, I. D. (2009, November). Vinyl Acetate from ethylene, acetic acid and oxygen Industrial Plant Simulation. In *Proceedings of the Computing and Systems Technology Division, American Institute of Chemical Engineers (AIChE) Annual Meeting*. AIChE (pp. 249-259).



- Carberry, J. J., Peters, M. S., Walker, W. H., White, A. H., Jackson, D. D., James, J. H., Lewis, W. K., & Curtis H C Parmelee, H. A. (n.d.). *McGraw-Hill Chemical Engineering Series Editorial Advisory Board. Chemical Engineering Design*. Pergamon Press. ISBN: 978-0-08-026462-2.
- Coulson, J. M., & Richardson, J. F. (1983). *Chemical Engineering: Volume 6 –*
- Coulson, J.M. & Richardson, J.F. (1985). *Coulson & Richardson's Chemical Engineering: Volume 6 - Chemical Engineering Design*. 4th edn. Elsevier Butterworth-Heinemann.
- Couper, J. R., *et al.* (2005). *Chemical process equipment: Selection and design* (2nd ed.). Gulf Professional Publishing (Elsevier).
- Crowl, D.A, Louvar, J.F. 2002. *Chemical Process Safety*. Prentice Hall. New Jersey.
- Effect of gas properties, temperature *and pressure* in gas-phase mass transfer coefficient. *AIChE. J.*, 31, 157-161.
- Engineering Design*. Pergamon Press.
- Evans, F. L. (1974). *Equipment Design Handbook*. In *Equipment Design Handbook for Refineries and Chemical Plants* (Vol. 2).
- Evans, F. L. (1974). *Equipment Design Handbook*. In *Equipment Design Handbook for Refineries and Chemical Plants* (Vol. 2).
- Flory, P.J., (1996), "Principles of Polymer Chemistry", 7ed., Cornell University Press, London.
- Fogler, H.S. (1999). *Elements of Chemical Reaction Engineering*. Upper Saddle River, Nj: Prentice-Hall.
- Foust, A. S. *et al.* (1960) 'Principles of unit operations', *Journal of the Franklin Institute*, 270(2), p. 150. doi: 10.1016/0016-0032(60)90130-7.
- Foust, A. S. *et al.* (1960) 'Principles of unit operations', *Journal of the Franklin Institute*, 270(2), p. 150. doi: 10.1016/0016-0032(60)90130-7.
- Geankoplis, C. J., Hersel, A. A. *and* Lepek, D. H. (2018) *Transport Processes and Separation Process Principles*. Fifth Edit. United States of America: Prentice Hall.



- Geankoplis, C. J., Hersel, A. A. and Lepek, D. H. (2018) *Transport Processes and Separation Process Principles*. Fifth Edit. United States of America: Prentice Hall.
- Hardy, T. L. (2013). *Elements of Process Safety Management: Case Studies*. American Institute of Chemical Engineers.
- Holman, J.P., (2010). *Heat Transfer*, 10th ed. McGraw-Hill, New York.
- Huttenhuis, P. J. G., Agrawal, P., Hogendoorn, K., & Versteeg, G. (2005). Experimental determination of H<sub>2</sub>S and CO<sub>2</sub> solubility data in aqueous amine solutions and a comparison with an Electrolyte Equation of State. In *CD 6th World Congress of Chemical Engineering* (pp. - ) <http://www.chemengcongress2005.com>
- Illies, S. and Kraushaar-Czarnetzki, B. (2016) ‘Processing Study on the Stability of Heteropoly Acid Catalyst in the Oxidation of Methacrolein to Methacrylic Acid’, *Industrial and Engineering Chemistry Research*, 55(31), pp. 8509–8518. doi: 10.1021/acs.iecr.6b00840.
- Illies, S. and Kraushaar-Czarnetzki, B. (2016) ‘Processing Study on the Stability of Heteropoly Acid Catalyst in the Oxidation of Methacrolein to Methacrylic Acid’, *Industrial and Engineering Chemistry Research*, 55(31), pp. 8509–8518. doi: 10.1021/acs.iecr.6b00840.
- Isroqunnajah, I., Mustikawan, A., & Rofiq, Z. (2022). Analisis sistem manajemen lingkungan UIN Malang menuju green campus: Perspektif EMS ISO 14001. *Evaluasi: Jurnal Manajemen Pendidikan Islam*, 6(2), 221–239.
- J. Coronas, M. Menendez, J. Santamaria. (1994), Proc. 7th Int. Symposium on Synthetic Membranes in Science and Industry, DECHEMA, Frankfurt.
- Kementerian Tenaga Kerja Republik Indonesia. *Keputusan Menteri Tenaga Kerja Republik Indonesia Nomor: KEP.187/MEN/1999 tentang Pengendalian Bahan Kimia Berbahaya di Tempat Kerja*, Pasal 3 dan 4. Jakarta: Kementerian Tenaga Kerja RI, 1999.
- Kern, D.Q., (1965). *Process Heat Transfer*, McGraw-Hill, New York.



- Kister, H.Z., (1992). *Distillation Design*, McGraw-Hill, New York
- Liu, Y., He, J., Chu, W., & Yang, W. (2018). Polyoxometalate catalysts with co-substituted VO<sub>2</sub><sup>+</sup> and transition metals and their catalytic performance for the oxidation of isobutane. *Catalysis Science and Technology*, 8(22), 5774–5781. <https://doi.org/10.1039/c8cy01101j>
- Liu, Y., He, J., Chu, W., & Yang, W. (2018). Polyoxometalate catalysts with co-substituted VO<sub>2</sub><sup>+</sup> and transition metals and their catalytic performance for the oxidation of isobutane. *Catalysis Science and Technology*, 8(22), 5774–5781. <https://doi.org/10.1039/c8cy01101j>
- Lorand, J. P. (1984). Radical Reaction Rates in Solution; in *Landoldt-Bornstein*, New
- Marcel, B. (1970). *Preparation of Polyvinyl Acetate Adhesive Emulsions*. United States Patent: Canada.
- Mirjana, M.M. (1994). *Heat Capacities of Sodium Carbonate-Sodium Bicarbonate aqueous Solution Mixture*. The Vinia Institute of Nuclear Sciences: Yugoslavia.
- Morgend, K. (1942). *Polymerization of Vinyl Esters In Emulsion*. United States Patent office: Canada.
- NEMA. (2021). *Motors for Power Generating Stations*. 2012.
- NEMA. (2021). *Motors for Power Generating Stations*. 2012.
- Norris, T.(1950). *Preparation of Polyvinyl Acetate Emulsions*. United States Patent office: Delaware.
- Occupational Safety and Health Administration. (2000). *Process Safety Management (OSHA 3132)*. U.S. Department of Labor.
- Omanov, B. (2023). Improvement of Technology of Vinyl Acetate Production From Acetylene. *Universum:Technical Sciences*, 116(11), 7–11. <https://doi.org/10.32743/unitech.2023.116.11.16338>
- Omanov, B. S., Fayzullaev, N. I., Musulmonov, N. K., Xatamova, M. S., & Asrorov, D. A. (2020). Optimization of vinyl acetate synthesis process. *International Journal of Control and Automation*, 13(1), 231–238.



- Perry, R.H. (1984). *Chemical engineer's handbook*. New York: Mcgraw-Hill.
- Perry, R.H. and Green, D.W., (1999), "Perry's Chemical Engineer's Handbook", 7th ed., Mc.Graw Hill Book Co., Singapore.
- Peters, M. S., Timmerhaus, K. D. and West, R. E. (2003) *Plant Design and Economics for Chemical Engineers*. Fifth Edit. North America: McGraw-Hill Companies.
- Peters, M. S., Timmerhaus, K. D. and West, R. E. (2003) *Plant Design and Economics for Chemical Engineers*. Fifth Edit. North America: McGraw-Hill Companies.
- Rase, H.F., (1977). *Chemical Reactor Design for Process Plants*, Vol. 1. John Wiley & Sons, New York.
- Rase, H.F., (1977). *Chemical Reactor Design for Process Plants*, Vol. 1. John Wiley & Sons, New York.
- Robert L, Daugherty.,(1985). Cs.:*Fluid Mechanics with Engineering Applications*, McGraw Hill,Inc.New York.
- Robert L, Daugherty.,(1985). Cs.:*Fluid Mechanics with Engineering Applications*, McGraw Hill,Inc.New York.
- Schindler, G. P., Ui, T. and Nagai, K. (2001) 'Kinetics of isobutane selective oxidation over Mo-V-P-As-Cs-Cu-O heteropoly acid catalyst', *Applied Catalysis A: General*, 206(2), pp. 183–195. doi: 10.1016/S0926-860X(00)00602-5.
- Schindler, G. P., Ui, T. and Nagai, K. (2001) 'Kinetics of isobutane selective oxidation over Mo-V-P-As-Cs-Cu-O heteropoly acid catalyst', *Applied Catalysis A: General*, 206(2), pp. 183–195. doi: 10.1016/S0926-860X(00)00602-5.
- Series; Fischer, H., Ed.; Springer-Verlag: Berlin, Vol. II,13a.
- Shulman, L. H., & Margolis, E. D. (2004). Performance of *packed column* (IV):
- Sinnott, R. K. (1983). *Chemical Engineering Design: An Introduction to Chemical*



- Sinnott, R. K. (2005). *Coulson & Richardson's chemical engineering*, vol. 6. Chemical Engineering Design, 4. TEMA. (2020). *Tubular Exchanger Manufacturers Association*. In Tema Association: Vol. 2.7.20 (pp. 1–11).
- Sinnott, R. K. (2005). *Coulson & Richardson's chemical engineering*, vol. 6. Chemical Engineering Design, 4. TEMA. (2020). *Tubular Exchanger Manufacturers Association*. In Tema Association: Vol. 2.7.20 (pp. 1–11).
- Sinnott, R.K., (1999), "Coulson & Richardson's Chemical Engineering", vol.6, 3rd ed., Butterworth Heinemann, Oxford.
- Smith, J. M. (1970). *Chemical Engineering Kinetics Second Edition*. New York: McGraw-Hill Book.
- Smith, J.C. (1947). Selection of Centrifuges for Chemical Processing. *Industrial & Engineering Chemistry*, 39(4), pp.474–479. doi:<https://doi.org/10.1021/ie50448a012>.
- Smith, J.M., Ness, V., Abbott, M.M. and Swihart, M.T. (2018). *Introduction to chemical engineering thermodynamics*. 8th ed. McGraw Hill.
- Ulrich D, G. (1884). *A Guide to Chanical Engineering Process Design and Economic*.
- Virender, K. (1985). *Temperature Dependence of Enthalpies and Heat Capacities of Sodium Dodecyl Sulfate(SDS) in Water*. Indian Institue of Technology: India
- Yaws, C. L. (1999). *Chemical properties handbook: physical, thermodynamic, environmental, transport, safety, and health related properties for organic and inorganic chemicals*. (No Title).
- Yaws, C.L. (2015). *The Yaws handbook of vapor pressure : antoine coefficients*. Houston: Gulf Professional.
- Smith, M. K., & Ferrier, F. (2001). *Lifelong learning. The encyclopedia of informal education*.
- Towler, G., & Sinnott, R. (2012). *Chemical Engineering Design Principles , Practice and Economics of Plant and Process Design Second Edition*.
- Treybal, R. E. (1980). *Mass transfer operations*. New York, 466, 493-497.



- Ulrich D, G. (1884). A Guide to Chanical Engineering *Process Design and Economic*.
- Yaws, C. L. (1999). Chemical properties *handbook: physical, thermodynamic, environmental, transport, safety, and health related properties for organic and inorganic chemicals*. (No Title).
- Brown, G. G., Foust, A. S., & Katz, D. L. V. (1950). *Unit operations* (Vol. 83). New York: Wiley.
- Brownell, L. E., & Young, E. H. (1959). *Process equipment design: vessel design*. John Wiley & Sons.
- Coulson, J. M., & Richardson, J. F. (2005). *Chemical engineering: Volume 1 – Fluid flow, heat transfer and mass transfer* (6th ed.). Butterworth-Hei
- El-Dessouky, H. T., & Ettouney, H. M. (2002). *Fundamentals of Salt Water Desalination*. Elsevier.
- García-Nieto, P. J., García-Gonzalo, E., & Paredes-Sánchez, J. P. (2024). Estimation of the coal *higher heating* value for energy systems relied on ultimate analysis with machine learning techniques. *Fuel*, 357(April 2023). <https://doi.org/10.1016/j.fuel.2023.130037>
- Mindaryani, A. (2018). *Mentoring T6: Utilitas*. Departemen Teknik Kimia.
- Perry, R.H. and Green, D.W., (1999), “Perry’s Chemical Engineer’s *Handbook*”, 7th ed., Mc.Graw Hill Book Co., Singapore.
- Powel, H. T. (1954). *Chemical Engineering Fundamentals*. New York: McGraw-Hill.
- Qasim, W., & Hashim, K. (2019). *Water Desalination: A Sustainable Approach*. Springer.
- Sinnott, R.K., (1999), “Coulson & Richardson’s Chemical Engineering”, vol.6, 3rd ed., Butterworth Heinemann, Oxford.
- Treybal, R. E. (1980). Mass transfer operations. New York, 466, 493-497.
- Tchobanoglous, G., Burton, F. L., & Stensel, H. D. (2014). *Wastewater Engineering: Treatment and Resource Recovery* (5th ed.). McGraw-Hill Education. ISBN: 978-0-07-340118-8.



Ulrich, G. D. (1984). *Chemical engineering process design and economics: A practical guide*. New York: Wiley.

Windsor, B., 2016, Ion Exchange Design – *Hand Calculation*.

Yaws, Carl L. (1999). *Chemical properties handbook : physical, thermodynamic, environmental, transport, safety, and health related properties for organic*