

DAFTAR PUSTAKA

- Al-Arafi, N., Salih, N. and Salimon, J. (2021) "Synthesis, characterization and optimization of oleyl oleate wax ester using ionic liquid catalysts," *Indonesian Journal of Chemistry*, 21(3), pp. 659–668. Available at: <https://doi.org/10.22146/ijc.59694>.
- Biermann, U. *et al.* (2021) "Fatty Acids and their Derivatives as Renewable Platform Molecules for the Chemical Industry," *Angewandte Chemie - International Edition*, 60(37), pp. 20144–20165. Available at: <https://doi.org/10.1002/anie.202100778>.
- Brownell, L. E. And Young, E. H. 1959. Process Equipment Design. New York: John Wiley And Son Inc.
- Considine, & Douglas M. 1985. Buku Pegangan Instrumen dan Kontrol. Edisi ke-3. AS: Mc.Graw-Hill, Inc.
- Coulson, J. M. And J. H. Richardson. 1983. Chemical Engineering First Edition. Oxford: Elsevier Butterworth-Heinemann
- Coulson, J. M. And J. H. Richardson. 2005. Chemical Engineering Fourth Edition. Oxford: Elsevier Butterworth-Heinemann
- Coulson, J.M., and Richardson, J.F., 1983. An Introduction to Chemical Engineering. Allyn and Bacon Inc, Massachusetts. Volume 2 Fifth Edition ISBN: 0 7506 4445 1
- Fogler, H. S. (2016). *Elements of Chemical Reaction Engineering* (5th ed.). Boston: Prentice Hall / Pearson Education.
- Geankoplis, C. J. 1993. Transport Process And Unit Operation Third. New Jersey: Prentice-Hall International Inc.
- Green, Don W. ; Maloney, J.O. (1997) *Perry's Chemical Engineers' Handbook, Seventh Edition, American Journal of Human Genetics*.
- Gunawan, M. L., Subagjo, Makertihartha, I. G. B. N., Malau, L. A., & Florence, A. (2020). Kinetika Reaksi Hidrogenasi Ester Lemak Menjadi Alkohol Lemak

- Dengan Katalis Tembaga- Mangan. *Indonesian Journal of Chemical Research*, 8(1), 21-27.
- Himmelblau, David M. 1982. Basic Principles And Calculations In Chemical Engineering Fourth Edition. Boston: Prentice Hall Inc.
- Kern, D. Q. 1965. Proses Heat Transfer. New York: McGraw Hill International Editions Book Company.
- Khariati, M. (2022) “Pemurnian Gliserol,” *Jurnal Jejaring Matematika Dan Sains*, 4(2), pp. 35–40.
- Kurniawan and Ruhyat, N. (2024) “Introduksi Rantai Nilai Hidrogen,” pp. 1–73.
- Megyesy, E. F. (2008). *Pressure Vessel Handbook* (14th ed.). Tulsa: Pressure Vessel Publishing.
- Perry, Robert H. 1997. Perry's Chemical Engineers' Handbook 7th Edition. McGraw-Hill Company. USA.
- Peters, M. S., & Timmerhaus, K. D. (2004). *Plant design and economics for chemical engineers* (5th ed.). McGraw-Hill.
- R. H. Perry and C. H. Chilton, Chemical Engineers' Handbook, 5th ed. New York : McGraw-Hill Book Company, 1973. With permission. (Geankoplis, 1993)
- Statistik, B.P. (2025) “Impor Fatty Alcohol HS 38237090 Indonesia 2021–2025.”
- Supriyanti and Rionaldo, H. (2021) “Prarancangan Pabrik Fatty Alcohol (Alkohol Lemak) dari CPO (Crude Palm Oil) dengan Disain Alat Utama Reaktor Hidrogenasi Jenis Fixed Bed Multitube,” *Jom Fteknik*, 8(2), pp. 1–12.
- Ullmann's (2000) “Fatty Alcohols.”
- UN Data. (2025). *Data Kebutuhan Fatty Alcohol* di beberapa negara asia tenggara. Diambil dari <https://data.un.org>.
- Wei, Y. *et al.* (2024) “Reaction Mechanism of Pyrolysis and Combustion of Methyl Oleate: A ReaxFF-MD Analysis,” *Energies*, 17(14). Available at: <https://doi.org/10.3390/en17143536>.

- Yaws, C. L. (1999). *Chemical Properties Handbook: Physical, Thermodynamic, Environmental, Transport, Safety, and Health Related Properties for Organic and Inorganic Chemicals*. New York: McGraw-Hill.
- Yaws, C. L. (1999). *Chemical Properties Handbook: Physical, Thermodynamic, Environmental, Transport, Safety, and Health Related Properties for Organic and Inorganic Chemicals*. New York: McGraw-Hill.
- Widodo, E. and Dwiyoğa, I. (2022) “ANALISIS PENGARUH ALKALISASI NaOH TERHADAP SERAT NANAS SEBAGAI PENGUATAN BIO KOMPOSIT,” *Otopro*, 18(1), pp. 1–6. Available at: <https://doi.org/10.26740/otopro.v18n1.p1-6>. Wunderlich, J., Kretzschmar, P. and Schomäcker, R. (2024) “Integrated techno-economic and life cycle assessment of hydroformylation in microemulsion systems,” *Frontiers in Sustainability*, 5. Available at: <https://doi.org/10.3389/frsus.2024.1405471>.
- Zhang, B., Peña Fuentes, D. and Börner, A. (2022) “Hydroformylation,” *ChemTexts*, 8(1). Available at: <https://doi.org/10.1007/s40828-021-00154-x>.