

## DAFTAR PUSTAKA

- Arita, S., Dara, M. B., & Irawan, J. (2008). *Pembuatan Metil Ester Asam Lemak Dari Cpo Off Grade Dengan Metode Esterifikasi-Transesterifikasi*. *Jurnal Teknik Kimia*, 15(2), 34–43. <https://doi.org/52-150-1-PB>
- Aziz, I., Las, T., & Shabrina, D. A. (2014). *Pemurnian Crude Glycerol Dengan Cara Pengasaman dan Adsorpsi Menggunakan Zeolit Alam Lampung*. *Chem. Prog*, 7(2), 66–73.
- Bailey's. (2005). *Bailey's Industrial oil and fat products*. In *The Analyst* (Vol. 70, Brownell and Young. (1959). *Process Equipment Design*. John Wiley & Sons Inc, Chemie International Edition, 6(11), 951–952.
- Chen, Y. H., Wong, D. S. H., Chen, Y. C., Chang, C. M., & Chang, H. (2019). *Design and performance comparison of methanol production processes with carbon dioxide utilization*. *Energies*, 12(22). <https://doi.org/10.3390/en12224322>
- Couper, J. R. (2012). *Chemical Process Equipment Third Edition*. In *Angewandte*
- Darby, R. (2001). *Chemical Engineering Fluid Mechanics Second Edition*.
- Dewi, E. A., & Dewi, A. C. (2019). *Prarancangan Pabrik Biodiesel Dari Crude Palm Oil (Cpo) Dan Metanol Melalui Proses Transesterifikasi Dengan Kapasitas 10.000 Ton/Tahun*. *Jurnal Tugas Akhir Teknik Kimia*, 2(2), 37-42.
- Erliza Hambali, Siti M, Armansyah H Tambunan, Abdul W P, Roy H, 2007. *Teknologi Bioenergi*. Jakarta : PT Agromedia Pustaka.
- F., U. (2005). *Chemical Engineering and Plant Design*. In *Journal of Chemical*
- Fennema, O.R. (1976). *Principle of Food Science*. edition 1. Department of Food
- Fessenden, R. J., and Fessenden, J. S. (1984). *Kimia Organik 2*. Terjemahan: A.
- Flynn, D. J., & Weeks, J. (2009). *The Nalco Water Handbook*. Mc Graw Hill Company, New York.
- Fogler, H. S. (1999). *Chemical Reaction Engineering Third Edition*. In *The Engineering Handbook*, Second Edition. <https://doi.org/10.1201/9781420087567-13>

- Foust, A. S., Wenzel, L. A., Maus, L., & Andersen, L. B. (1982). Principle of Unit Operations. In Department of Chemical Engineering Lehigh University Bethlehem, Pennsylvania.
- Frayne, C. (2002). Boiler water treatment: principles and practice (Vol. 1 e 2).
- Gabungan Pengusaha Kelapa Sawit Indonesia 2017. *Perkembangan biodiesel di Indonesia dan terbesar di Asia*: <https://gapki.id/news/2017/09/13/perkembangan-biodiesel-di-indonesia-dan-terbesar-di-asia/> Diakses pada tanggal 20 Januari 2024 Pukul 15.00 WIB
- Geankoplis, C. J. (1983). Transport Process and Unit Operations Third Edition. Prentice-Hall International.
- Geankoplis, C. J. (1993). Transport Processes and Unit Operations.
- Granjo, J. F. O., & Oliveira, N. M. C. (2016). *Process Simulation and Techno-Economic Analysis of the Production of Sodium Methoxide. Industrial and Engineering Chemistry Research*, 55(1), 156-167. <https://doi.org/10.1021/acs.iecr.5b02022>
- Hammond, E. G., Johnson, L. A., Su, C., Wang, T., & White, P. J. (2005). *Bailey's Industrial Oil and Fat Products, Edible Oil and Fat Products: Soybean Oil. Bailey's Industrial Oil and Fat Products, Sixth Edition., 1*, 577–653. [http://books.google.com/books/about/Bailey\\_s\\_Industrial\\_Oil\\_and\\_Fat\\_Products.html?id=TSKqQgAACAAJ&pgis=1](http://books.google.com/books/about/Bailey_s_Industrial_Oil_and_Fat_Products.html?id=TSKqQgAACAAJ&pgis=1)
- Himmelblau, D. M., & Riggs, J. B. (1996). Basic principles and calculations in chemical engineering seventh edition. In Prentice Hall International Series in the Physical and Chemical Engineering Sciences.
- Holman, J. P. (2002). Heat Transfer Book Description. Mc Graw-Hill, New York.
- JJ-Lurgi. *Methyl Ester (Biodiesel)*: [https://jj-lurgi.com/?page\\_id=1831](https://jj-lurgi.com/?page_id=1831) Diakses pada Tanggal 20 Januari 2024 pukul 15.20 WIB.
- Kementerian Energi dan Sumber Daya Mineral. 2021. Konsumsi Biodiesel :<https://www.esdm.go.id/> diakses pada tanggal 21 Januari 2022 pukul 14.21 WIB
- Kern, D. Q. (1965). Process Heat Transfer. International Student Edition, Mc Graw-hill Inc, Kogakusta, Tokyo.
- Kern, D. Q. (1965). Process Heat Transfer. International Student Edition, Mc Graw-hill Inc, Kogakusta, Tokyo.

- Ketaren, S, 1986, "Pengantar Teknologi Minyak dan Lemak Pangan", Cetakan I, UI-Press, Jakarta
- Ketaren. (1986). Pengantar Teknologi Minyak dan Lemak Pangan. Jakarta :UIPress.
- Khan, S., Tubino, M., Vila, M. M. D. C., & Bastos, F. A. (2018). *First Time Determination of Important Catalyst Sodium Methoxide Used in Biodiesel by Colorimetric Method. Analytical Chemistry*, 90(5), 3550–3555. <https://doi.org/10.1021/acs.analchem.7b05445>
- Kirk, R. E, and Othmer D. F. (1966). Encyclopedia of Chemical Technology, 2th ed. The Interscience Encyclopedia Inc. New York.
- Kirk, R.E., and D.F. Othmer. 1997. *Encyclopedia of Chemical Technology*. New York: A Wiley Inter Science Publisher Inc.
- Kister, H. Z. (1992). Distillation Design. Mc Graw hill, California.
- Leung, K. K., & Yau, Y. H. (2017). *The utilization of leftover as acid catalyst to catalyse the transesterification and esterification reactions. IOP Conference Series: Earth and Environmental Science*, 82(1). <https://doi.org/10.1088/1755-1315/82/1/012009>
- Ludwig, E. E. (1980). Applied Process Design for Chemical and Petrochemical Plants.
- Mccabe, W. L. (1999). Unit Operations of Chemical Engineering Fifth edition. In McGraw-Hill Chemical Engineering Series.
- Megyesy, E. F. (1983). Pressure Vessel handbook Twelfth Edition. Publishing Inc,USA.
- N.Kemmer, F. (1988). The Nalco Water Handbook. Mc Graw Hill Company, New York.
- Nayef Ghasem, R. H. (2009). Principles of Chemical Engineering Process. New York.
- Perry, R. H., and Green, D. W. (2008). Perry's Chemical Engineers, 7th ed. McGraw Hill Companies Inc. USA.
- Perry, R. H., Green, D. W., & Maloney, J. O. (1997). CHEMICAL ENGINEERS 'HANDBOOK SEVENTH Late Editor. In Society.
- Perry, R.H. and Green, D. 1997. *Perry's Chemical Engineers' Handbook, 7<sup>th</sup> Edition*. New York: McGraw-Hill Book Company.

- Peters, M. S., & Timmerhaus, K. D. (1991). Plant Design and Economics for Chemical Engineers. In Plant design and economics for chemical engineers.
- Prasetyo, A. E., Widhi, A., & Widayat, W. (2012). *Potensi Gliserol Dalam Pembuatan Turunan Gliserol Melalui Proses Esterifikasi*. Jurnal Ilmu Lingkungan, 10(1), 26. <https://doi.org/10.14710/jil.10.1.26-31>
- Purba, E. R., & Martosupono, M. (2009). *Kurkumin sebagai senyawa antioksidan*.
- Reid, R. C. (1987). Properties Of Gases and Liquids, Third Edition. Mc Graw Hill Book Company, Tokyo.
- Richardson's, C. and. (1983). Chemical Engineering, Volume 6, Fourth Edition. In Chemical Engineering Design.
- Richardson's, C. and. (1988). Chemical Engineering Design Sixth Edition. In Chemical Engineering Design. <https://doi.org/10.1016/b978-0-08-1025994.09980-x>
- Sahirman, Suryani, A., Mangunjidjaja, D., Sukardi, & Sudrajat, R. (2008). *Pengujian sifat fisiko-kimia, kinerja dan pengaruh pada mesin terhadap biodiesel dari minyak biji bintangur (Cailophyllum inopylum)*. Prosiding Seminar Nasional Hasil Penelitian (pp. 84-97). Bogor.
- Sari, T. I., Said, M., Summa, A., & Sari, A. K. (2011). *Katalis basa heterogen Campuran CaO dan SrO Pada Reaksi Tranesterifikasi Minyak Kelapa Sawit*. Prosiding Seminar Nasional AVoER ke- 3, 26–27.
- Science University of Wisconsin Medison. Marcel Dekker Inc., New York and Basel.
- Setyoprato, P. (2012). *Produksi Asam Lemak Dari Minyak Kelapa Sawit Dengan Proses Hidrolisis*. Jurnal Teknik Kimia, 7(1), 26–31.
- Soerawidjaja, Tatang H, 2006, *Fondasi-Fondasi Ilmiah dan Keteknikan Dari Teknologi Pembuatan Biodiesel*. Handout Seminar Nasional; Biodiesel Sebagai Energi Alternatif Masa Depan, UGM Yogyakarta
- Subhabrata Ray, G. Das. (2020). Process Equipment and Plant Design. In Process Equipment and Plant Design. <https://doi.org/10.1016/c2017-0-02434-5>.
- Sugiono, A. 2008. *Pengembangan Bahan Bakar Nabati untuk Mengurangi Dampak Pemanasan Global*. In: TEKNOLOGI, B. P. D. P. (ed.). Seminar Nasional Kebijakan Pemanfaatan Lahan dalam Menanggulangi Dampak
- Susana, Tjutju. (2003). Air Sebagai Sumber Kehidupan. Jakarta: Pusat Penelitian Oseanografi-LIPI.

- Ullmann's. (2017). Food and Feed. In *Techniques and Instrumentation in Analytical Chemistry* (Vol. 10, Issue C). [https://doi.org/10.1016/S0167-9244\(08\)70241-5](https://doi.org/10.1016/S0167-9244(08)70241-5).
- Ulrich, G. D. (1984). *A Guide to Chemical Engineering Process Design and Economics*. John Wiley & Sons Inc, New York.
- Wahyuni, S., Hambali, E., Tua, B., Marbun, H., Program, Teknologi, S., Sawit, P., Kampar, P., Surfaktan, P., Bioenergi, D., & Pertanian Bogor, I. (2016). *Esterifikasi Gliserol Dan Asam Lemak Jenuh Sawit Dengan Katalis Mesa Esterification of Glycerol And saturated fatty Acids of Palm Oil With mesa As Catalyst*. *Jurnal Teknologi Industri Pertanian*, 26(3), 333–342.
- Walas, Stanley M. (1988). *Chemical Process Equipment*. In *Angewandte Chemie International Edition*, 6(11), 951–952.
- Walas, Stanley M. (1990). *Chemical Process Equipment*. In Department of Chemical and Petroleum Engineering University of Kansas. <https://doi.org/10.1109/WCCAIS.2014.6916547>.
- Walas, Stanley M. (2010). *Chemical Process Equipment Second Edition*. Wilmar Oleochemical and Biofuel Division.
- Winarno, F. G. (1992). *Kimia Pangan dan Gizi*. PT. Gramedia Pustaka Utama. Jakarta.
- Yaws, C. L. (2015). The Yaws Handbook of Vapor Pressure Antoine Coefficients Carl. In *The Yaws Handbook of Vapor Pressure*. <https://doi.org/10.1016/c2014-0-03590-3>.
- Yaws, C.L., 1999, *Chemical Properties Handbook*, McGraw Hill Companies Inc., USA.