

DAFTAR PUSTAKA

- Amrullah, I., & Hambali, E. (2021). Bioethanol prospect from agricultural crops and its biomass in Indonesia. *IOP Conference Series: Earth and Environmental Science*, 749(1). <https://doi.org/10.1088/1755-1315/749/1/012019>
- Aries, R. S., & Newton, R. D. (1955). *Chemical Engineering Cost Estimation*. McGraw-Hill.
- ASME. (1989). *ASME Handbook on Water Technology for Thermal Power Systems* (P. Cohen, Ed.). American Society of Mechanical Engineers (ASME).
- BPS. (2021). *Jumlah Penduduk Menurut Kecamatan (Jiwa)*, 2018-2020. <https://cilegonkota.bps.go.id/indicator/12/37/1/jumlah-penduduk-menurut-kecamatan.html>
- BPS Provinsi Banten. (2024). *Rata-rata Kelembaban Udara Menurut Bulan dan Stasiun Pengamatan di Provinsi Banten (persen)*, 2021-2023. <https://banten.bps.go.id/indicator/151/375/1/rata-rata-kelembaban-udara-menurut-bulan-dan-stasiun-pengamatan-di-provinsi-banten.html>
- Branan, C. L. (2002). *Rules of Thumb for Chemical Engineers* (3rd ed.). Gulf Professional Publishing.
- Brown, G. G. (1950). *Unit Operations*. CBS Publisher & Distributors.
- Brown, T. (2006). *Engineering Economics and Economic Design for Process Engineers* (1st ed.). CRC Press. <https://doi.org/doi.org/10.1201/b15877>
- Brownell, L. E., & Young, E. H. (1959). *Process Equipment Design* (1st ed.). John Wiley & Sons.
- DDBST. (2023). *Saturated Vapor Pressure Calculation by Antoine Equation*. <http://ddbonline.ddbst.com/AntoineCalculation/AntoineCalculationCGI.exe>
- Demuner, R. B., Soares Santos Maia, J. G., Secchi, A. R., Melo, P. A., Do Carmo, R. W., & Gusmao, G. S. (2019). Modeling of Catalyst Deactivation in Bioethanol Dehydration Reactor. *Industrial and Engineering Chemistry Research*, 58(8), 2717–2726. <https://doi.org/10.1021/acs.iecr.8b05699>
- Evans, F. L. (1980). *Equipment Design Handbook for Refineries and Chemical Plants* (2nd ed., Vol. 2, Issue v. 1). Book Division Gulf Publishing Company. <https://books.google.co.id/books?id=HMFTAAAAMAAJ>

- Fan, D., Dai, D. J., & Wu, H. S. (2012). Ethylene Formation by Catalytic Dehydration of Ethanol with Industrial Considerations. *Materials (Basel, Switzerland)*, 6(1), 101–115. <https://doi.org/10.3390/MA6010101>
- Fernandez, L. (2021, September 6). *Ethylene prices globally 2021 / Statista*. <https://www.statista.com/statistics/1170573/price-ethylene-forecast-globally/>
- Fogler, S. H. (2016). *Elements of Chemical Reaction Engineering* (5th ed.). Prentice Hall.
- Green, D. W., & Perry, R. H. (2008). *Perry's Chemical Engineers' Handbook, Eighth Edition* (8th ed.). McGraw-Hill Education. <https://www.accessengineeringlibrary.com/content/book/9780071422949>
- IHS Markit. (2022, February). *Ethylene - Chemical Economics Handbook (CEH) / IHS Markit*. <https://ihsmarkit.com/products/ethylene-chemical-economics-handbook.html>
- Kern, D. Q. (1965). *Process Heat Transfer*. Mc-Graw Hill Book Company.
- Ludwig, E. E. (2001). *Applied Process Design: For Chemical and Petrochemical Plants* (3rd ed., Vol. 3). Gulf Professional Publishing.
- McKechnie, J., Pourbafrani, M., Saville, B., & Maclean, H. (2015). Environmental and financial implications of ethanol as a bioethylene feedstock versus as a transportation fuel. *Environmental Research Letters*, 10, 124018. <https://doi.org/10.1088/1748-9326/10/12/124018>
- Mendieta, C. M., Cardozo, R. E., Felissia, F. E., Clauser, N. M., Vallejos, M. E., & Area, M. C. (2021). Bioconversion of Wood Waste to Bio-ethylene: A Review. In *BioResources* (Vol. 16, Issue 2, pp. 4411–4437). <https://doi.org/10.15376/biores.16.2.4411-4437>
- Merritt, C. (2022). *Process Steam Systems: A Practical Guide for Operators, Maintainers, Designers, and Educators* (Vol. 2nd). Wiley. <https://doi.org/10.1002/9781119838968>
- Mohsenzadeh, A., Zamani, A., & Taherzadeh, M. J. (2017). Bioethylene Production from Ethanol: A Review and Techno-economical Evaluation. *ChemBioEng Reviews*, 4(2), 75–91. <https://doi.org/10.1002/cben.201600025>
- NIST. (2023). *Thermophysical Properties of Fluid Systems*. <https://webbook.nist.gov/chemistry/fluid/>

- Nyhus, A. H., Yliruka, M., Shah, N., & Chachuat, B. (2024). Green ethylene production in the UK by 2035: a techno-economic assessment. *Energy and Environmental Science*, 17(5), 1931–1949. <https://doi.org/10.1039/d3ee03064d>
- Peters, M. S., Timmerhaus, K. D., & West, R. E. (2003). *Plant Design and Economics for Chemical Engineers*. McGraw-Hill Education.
- Powell, S. T. (1954). *Water Conditioning for Industry*. McGraw-Hill.
- Research and Markets. (2022, March 30). *Global Olefin (Ethylene) Market 2020-2028 to be Driven by Escalating Paacking Costs*. <https://www.prnewswire.com/news-releases/global-olefin-ethylene-market-2020-2028-to-be-driven-by-escalating-paacking-costs-301513783.html>
- Rossetti, I., Tripodi, A., Frosi, M., Ramis, G., & Mahinpey, N. (2019). Bio-ethylene Production: From reaction kinetics to plant scale. *DGMK Tagungsbericht*, 2019(3), 61–70.
- Sinnott, R. K. (2005). *Coulson & Richardson's Chemical Engineering: Chemical Engineering Design* (4th ed., Vol. 6, Issue v. 6). Elsevier Butterworth-Heinemann.
- Towler, G., & Sinnott, R. K. (2012). *Chemical Engineering Design: Principles, Practice and Economics of Plant and Process Design*. Elsevier Science. <https://doi.org/10.1016/C2019-0-02025-0>
- Treybal, R. E. (1981). *Mass-Transfer Operations* (International). McGraw-Hill.
- Tripodi, A., Belotti, M., & Rossetti, I. (2019). Bioethylene production: From reaction kinetics to plant design. *ACS Sustainable Chemistry and Engineering*, 7(15), 13333–13350. <https://doi.org/10.1021/acssuschemeng.9b02579>
- Turton, R. (2018). *Analysis, Synthesis, and Design of Chemical Processes* (5th ed.). Prentice Hall.
- Ulrich, G. D. (1984). *A Guide to Chemical Engineering Process* (1st ed.). John Wiley & Sons.
- Walas, S. M., Couper, J. R., Penney, W. R., & Fair, J. R. (2012). *Chemical Process Equipment: Selection and Design* (3rd ed.). Butterworth-Heinemann.
- Wu, C.-Y., & Wu, H.-S. (2017). Ethylene Formation from Ethanol Dehydration Using ZSM-5 Catalyst. *ACS Omega*, 2(8), 4287–4296. <https://doi.org/10.1021/acsomega.7b00680>

Yaws, C. L. (1999). *Yaws' Handbook of Thermodynamic and Physical Properties of Chemical Compounds*.

Yaws, C. L. (2003). *Yaws' Handbook of Thermodynamic and Physical Properties of Chemical Compounds*. Norwich, N.Y.: Knovel, [2003] ©2003.

Zamani. (1998). *Manajemen*. Badan Penerbit IPWI.

Zhang, M., & Yu, Y. (2013). Dehydration of ethanol to ethylene (supporting information). *Industrial and Engineering Chemistry Research*, 52(28), 9505–9514.

Zimmermann, H., & Walzl, R. (2009). Ethylene. In *Ullmann's Encyclopedia of Industrial Chemistry*. John Wiley & Sons, Ltd.
https://doi.org/https://doi.org/10.1002/14356007.a10_045.pub3