



DAFTAR PUSTAKA

- American Elements. Available at: <https://www.americanelements.com> (Accessed: 6 November 2024).
- Aries, R.S. and Newton, R.D., 1955, CHEMICAL ENGINEERING COST ESTIMATION, McGraw Hill Companies, Inc., New York, available at: <https://doi.org/10.1021/ed033p194.1>.
- Badan Pusat Statistik [BPS]. 2025. Suku Bunga Kredit Rupiah Menurut Kelompok Bank, 2025: Badan Pusat Statistik (BPS – Statistics Indonesia).
- Brown, G. G., Foust, A. S., & Katz, D. L. (1950). *Unit Operations*. McGraw-Hill.
- Brownell, L. E., & Young, H. E. (1959). *Process Equipment Design*. Wiley.
- Caprolactam Market Size, Share & Trends Analysis Report By Application (Textile Yarn, Industrial Yarn, Engineering Plastics), By End-use (Automotive, Film & Coatings, Others), By Region, And Segment Forecasts, 2024 - 2030: <https://www.grandviewresearch.com/industry-analysis/caprolactam-market#>
- Coker, A. K. (2007). *Ludwig's Applied Process Design for Chemical and Petrochemical Plants* (Vol. 1). Gulf Professional Publishing.
- Crowl, Daniel A., Louvar, J. F. (2011). *Chemical Process Safety Fundamentals with Applications*. Third Edition. ISBN No 0-13-138226-8
- Finlayson, B., Smith, J., & Brown, L. (2016). *Chemical Process Design and Simulation*. New York: McGraw-Hill. Retrieved November 3, 2024, from <https://www.chemicalbook.com>
- Fortune Business Insights. (2024, November 1). *Plastics Polimers & Resins*. Retrieved from [fortunebusinessinsights.com](https://www.fortunebusinessinsights.com): <https://www.fortunebusinessinsights.com/nylon-market-102007>
- Gong, J., Hou, S., Wang, Y. et al. Progress in Processes and Catalysts for Dehydrogenation of Cyclohexanol to Cyclohexanone. *Trans. Tianjin Univ.* 29, 196–208 (2023). <https://doi.org/10.1007/s12209-023-00358-x>
- Grand View Research. (2024). *Industry Analysis*. Retrieved November 2024, from Ca (Smith J. A., 2015)
- Gresik, B. P. (2024, April 3). *Curah hujan, Hari Hujan, dan Penyinaran Matahari*. Retrieved November 1, 2024, from <https://gresikkab.bps.go.id/id/statistics-table/2/MTE2IzI=/curah-hujan-hari-hujan-dan-penyinaran-matahari-.html>



- Gunardson, H. (1998). *Industrial Gases in Petrochemical Processing*. New York: Marcel Dekker.
- House, J. E., & House, K. A. (2016). *Descriptive Inorganic Chemistry*. Academic Press. doi:10.1016/B978-0-12-804697-5.00007-5.
- indonesia.go.id. (2024). *Industri tekstil dan Pakaian*. Retrieved November 2024, from Industri Tekstil dan Pakaian Tumbuh Makin Positif: <https://indonesia.go.id/kategori/editorial/8259/industri-tekstil-dan-pakaian-tumbuh-makin-positif?lang=1>
- Kantarci, N., Borak, F. & Ulgen, K.O., 2005. Bubble Column Reactors. *Process Biochemistry*, 40(7), pp.2263–2283. Available at: <https://doi.org/10.1016/j.procbio.2004.10.004>.
- Kementerian Lingkungan Hidup dan Kehutanan Republik Indonesia. (2016). *Peraturan Menteri LHK No. P.68/Menlhk-Setjen/2016 tentang Baku Mutu Air Limbah Domestik*.
- Kementerian Negara Lingkungan Hidup Republik Indonesia. (2010). *Peraturan Menteri No. 03 Tahun 2010 tentang Baku Mutu Air Limbah Bagi Kawasan Industri*.
- Luft, G., Laurent, A., Recasense, F., Trabelsi, F., & Weickert, G. (2001). Industrial reaction units. *Industrial chemistry library*, 9, 243-350.
- Michalska, K., Kowalik, P., Próchniak, W., Stołeczki, K., Słowik, G., & Borowiecki, T. (2016). The effect of copper on benzene hydrogenation to cyclohexane over Ni/Al₂O₃ catalyst. *Applied Catalysis: A General*, 523, 54-60.
- National Center for Biotechnology Information. (2024). *Benzene*. Retrieved November 5, 2024, from PubChem Compound Summary for CID 241: <https://pubchem.ncbi.nlm.nih.gov/compound/Benzene>
- National Center for Biotechnology Information. (2024). *Benzene*. Retrieved November 2024, from PubChem Compound Summary for CID 241, National Library of Medicine: <https://pubchem.ncbi.nlm.nih.gov/compound/Benzene>
- Occupational Safety and Health Administration. (2023). *Process Safety Management (PSM) for Small Businesses*. United States Department of Labor. <https://www.osha.gov/process-safety-management/sbrefa>
- Pemerintah Republik Indonesia. (1999). *Peraturan Pemerintah No. 41 Tahun 1999 tentang Pengendalian Pencemaran Udara*.
- Perry, R. H. (1999). *Perry's Chemical Engineers' Handbook*. (D. W. Green, Ed.) The McGraw-Hill Companies, Inc.
- Perry, R. H., & Green, D. W. (1997). *Perry's Chemical Engineers' Handbook* (7th ed.). McGraw-Hill.



Powell, G. M. (1954). *Water and Waste-Water Engineering*. McGraw-Hill.

Publishing

- Rase, H. F. (1977). *Chemical Reactor Design for Process Plants: Volume II*. Wiley-Interscience.
- Ritz, J., Fuchs, H., Kieczka, H., & Moran, W. (2005). *Caprolactam*. Retrieved from https://onlinelibrary.wiley.com/doi/10.1002/14356007.a05_031.
- Ritz, J., Fuchs, H., Kieczka, H., & Moran, W. C. (2000). Caprolactam. In *Ullmann's Encyclopedia of Industrial Chemistry* (6th ed.). Wiley-VCH. https://doi.org/10.1002/14356007.a05_409
- Rosyidiin, Afrigh F., Nugroho, A., Amrullah, H. N., (2017). *Analisis Risiko Dengan Metode Layer of Protection Analysis Pada Reactor Platforming Di Industri Petrokimia*. Proceeding 2nd Conference on Safety Engineering and Its Application. ISSN No. 2581 – 1770
- Seider, W. D., Lewin, D. R., Seader, J. D., Widagdo, S., Gani, R., & Ng, K. M. (2017). *Product and process design principles: synthesis, analysis, and evaluation*. John Wiley & Sons.
- Sen, S. (2012). *Environmental Engineering*. Oxford University Press.
- Sinnott, R. K., & Towler, G. (2019). *Chemical Engineering Design* (6th ed.). Elsevier.
- Smith, J. A. (2015). Caprolactam. In *Kirk-Othmer Encyclopedia of Chemical Technology* (5th ed., Vol. 4, pp. 345-362). New York: Wiley. Solomons, T. G., Fryhle, C. B., & Snyder, S. A. (2008). *Organic Chemistry*. John Wiley & Sons.
- Smith, J. M., Van Ness, H. C., & Abbott, M. M. (2017). *Introduction to Chemical Engineering Thermodynamics* (8th ed.). McGraw-Hill.
- Solomons, T., & Snyder, S. (2011). *Organic Chemistry 11th edition*. Wiley.
- Stapleton, P. J., Cooney, A. M., & Hix, W. M., Jr. (1996). *Environmental management systems: An implementation guide for small and medium-sized organizations*. NSF International.
- [Stewart, M. \(2019\). Surface Production Operations: Pump and Compressors. Gulf Professional](#)
- Talukdar, J., Wong, E., & Mathur, V. (1991). Caprolactam Production by Direct Solar Flux. *Solar Energy*, 47(3), 165-171.
- Timmerhaus, K. D., & Peter, M. S. (2003). *Plant Design and Economics for Chemical Engineers*. New York: Mc.Graw Hill Book Company Inc.
- Ulrich, G.D., 1984, *A Guide to Chemical Engineering Process Design and Economic*, John Wiley & Sons, In



Volk, M. (2013). *Pump Characteristics and Applications* (3rd ed.). CRC Press.

<https://doi.org/10.1201/b15559>

Walas, Stanley M. (1990). *Chemical Process Equipment*. Butterworth-Heinemann: USA

Wiley&Sons, J. (2001). *Kirk-Othmer Encyclopedia of Chemical Technology 4th Edition*. New York.

World Integrated Trade Solution. (2023). *World Integrated Trade Solution*. Retrieved November 3, 2024, from <https://www.wits.worldbank.org>

Yaws, C. L., 1999. *Chemical Properties Handbook: Physical, Thermodynamic, Environmental, Transport, Safety, and Health Related Properties for Organic and Inorganic Chemicals*. Texas: McGraw-Hill.

Zhou, L., Xu, J., Miao, H., Wang, F., & Li, X. (2005). Catalytic oxidation of cyclohexane to cyclohexanol and cyclohexanone over Co₃O₄ nanocrystals with molecular oxygen. *Applied Catalysis A: General*, 292, 223-228.

Zhu, L., Sun, H., Zheng, J., Zhang, N., Li, Y., & Chen, B. (2015). Effect of ruthenium nickel bimetallic composition on the catalytic performance for benzene hydrogenation to cyclohexane. *Applied Catalysis: A General*, 499, 124-132.