



DAFTAR PUSTAKA

- Aries, R.S. and Newton, R.D., 1955, Chemical Engineering Cost Estimation, McGraw Hill Companies, Inc., New York.
- ASME Boiler and Pressure Vessel Code Section V Nondestructive Examination-ASME: Vol. V. (2007). The American Society of Mechanical Engineers.
- Badan Pusat Statistik Kabupaten Cilacap. (2024, 18 Januari). Kelembaban, kecepatan, dan arah angin/humidity, wind velocity, and wind direction. Diakses dari <https://cilapkab.bps.go.id/id/statistics-table/2/MzMwIzI=/kelembaban-kecepatan-dan-arah-angin-humidity-wind-velocity-and-wind-direction.html>
- Badan Pusat Statistik. (2025, 28 Mei). Suku bunga kredit rupiah menurut kelompok bank. Diakses 17 Juni 2025 dari <https://www.bps.go.id/id/statistics-table/2/MzgZlZI=/suku-bunga-kredit-rupiah-menurut-kelompok-bank.html>
- Bellussi, G., Perego, C., & Ingallina EniTecnologie SpA, P. (2002). New Catalysts and New Processes in the Industrial Alkylation of Aromatics.
- Bellussi, G., Perego, C., & Ingallina EniTecnologie SpA, P. (2002). New Catalysts and New Processes in the Industrial Alkylation of Aromatics.
- Brown, G. G. (2005). Unit Operations. CBS Publishers & Distributors.
- Brownell, L. E., & Young, E. H. (1959). Process equipment design: vessel design. John Wiley & Sons.
- Buzzo, G. S., Rodrigues, A. C. B., De Souza, R. F. B., Silva, J. C. M., Bastos, E. L., Spinacé, E. V., Neto, A. O., & Assumpção, M. H. M. T. (2015). Synthesis of hydroquinone with co-generation of electricity from phenol aqueous solution in a proton exchange membrane fuel cell reactor. *Catalysis Communications*, 59, 113–115. <https://doi.org/10.1016/j.catcom.2014.09.048>
- Centrifugal Pump Academy: The [B-K] factor in mechanical seal life. (1997). *World Pumps*, 1997(366), 44–47. [https://doi.org/https://doi.org/10.1016/S0262-1762\(99\)80055-8](https://doi.org/https://doi.org/10.1016/S0262-1762(99)80055-8)
- Chemical Engineering Online. (2021). Diakses 17 Juni 2025 dari www.chemengonline.com



- Coker, A. K. (2007). *Ludwig's Applied Process Design for Chemical and Petrochemical Plants* Fourth Edition: Vol. I. Elsevier Inc.
- Crowl, D. A., & Louvar, J. F. (2019). *Chemical Process Safety Fundamentals with Applications* (Fourth Edi). Pearson Education, Inc.
- Donald Q. Kern. (1965). *Process Heat Transfer*. McGraw-HillBookCompany.
- Dunn, W. C. (2005). *Fundamentals of Industrial Instrumentation and Process Control*. McGraw-Hill.
- Engelmann, D., Bochum, R., Schramm, A., Bochum, R., Polklas, T., & Bochum, R. (2014). *Losses of Steam Admission in Industrial Steam Turbines Depending on Geometrical Parameters*.
Engineering and Processing-Process Intensification, 161, 108314
- Fayol, H. (1954). *General and Industrial Management*.
<https://ia904707.us.archive.org/22/items/in.ernet.dli.2015.13518/2015.13518.General-And-Industrial-Management.pdf>
- Fortuin, J. P., & Waterman, H. I. (1953). *Production of phenol from cumene*. *Chemical Engineering Science*, 2(4), 182–192. [https://doi.org/10.1016/0009-2509\(53\)80040-0](https://doi.org/10.1016/0009-2509(53)80040-0)
- Galih Teja Mukti, Tri Budi Prayogo, & Riyanto Haribowo. (2021). *Studi Penentuan Status Mutu Air dengan Menggunakan Metode Indeks Pencemaran dan Metode Water Quality Index (WQI) di Sungai Donan Cilacap, Jawa Tengah*. *Jurnal Teknologi Dan Rekayasa Sumber Daya Air* Vol. 1 No. 1 (2021) p.238-251.
- Gammahendra, F., Hamid, D., & Riza, M. F. (2014). *Pengaruh Struktur Organisasi Terhadap Efektivitas Organisasi Dalam Suatu Perusahaan*. *Jurnal Administrasi Bisnis*, 7(2).
- Global Asset Protection Services LLC. (2001). *Oil and Chemical Plant Layout and Spacing*. *GAPS Guidelines*, GAP.2.5.2, 1–13.
- Hazmi, H. A. (2022). *Process Simulation & Sensitivity Analysis of Cumene Production from an Integrated Alkylation and Transalkylation Reaction*.
- Indian Standard 11592. (2000). *Selection and Design of Belt Conveyors*.
- Indian Standard 6833. (1973). *Specification for Buckets for Bucket Elevator*.



Indian Standard 7167. (1974). Code for Selection and Use of Bucket Elevator.

Indian Standard 8730. (1997). Classification and Codification of Bulk Materials for Continuous Material Handling Equipment.

Industry ARC. (2024). Hydroquinone Market. Diambil dari <https://www.industryarc.com/Research/Hydroquinone-Market-Research-502890>

International Organization for Standardization. (2015). Environmental management systems — Requirements with guidance for use (ISO Standard No. 14001:2015). <https://www.iso.org/standard/60857.html>

Ion Exchange Design – Hand Calculation (2016).

James R. Couper, W. Roy Penney, James R. Fair, & Stanley M. Walas. (2005). Chemical Process Equipment (2nd ed.). Elsevier's Science & Technology Rights.

Kementerian Lingkungan Hidup dan Kehutanan Republik Indonesia. (2016). Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor P.68/Menlhk-Setjen/2016 tentang Baku Mutu Air Limbah Domestik. <https://peraturan.bpk.go.id/>

Kementerian Lingkungan Hidup dan Kehutanan Republik Indonesia. (2017). Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor P.19 Tahun 2017 tentang Baku Mutu Emisi Gas Buang. Berita Negara Republik Indonesia Tahun 2017 Nomor 1016.

Kementerian Negara Lingkungan Hidup Republik Indonesia. (2010). Peraturan Menteri Negara Lingkungan Hidup Nomor 03 Tahun 2010 tentang Baku Mutu Air Limbah bagi Kawasan Industri. <https://peraturan.bpk.go.id/>

Kharlampidi, K. E., Nurmurodov, T. S., Ulitin, N. V., Tereshchenko, K. A., Miroshkin, N. P., Shiyan, D. A., ... & Khursan, S. L. (2021). Design of cumene oxidation process. Chemical Engineering and Processing-Process Intensification, 161, 108314.

Kharlampidi, K. E., Nurmurodov, T. S., Ulitin, N. V., Tereshchenko, A., Miroshkin, N. P., Shiyan, D. A., Novikov, N. A., Stoyanov, O. V., Ziyatdinov, N. N., Lapteva, T. V., & Khursan, S. L. (2021). Design of cumene oxidation process. Chemical Engineering and Processing - Process Intensification, 161. <https://doi.org/10.1016/j.cep.2021.108314>

Krisnawati, M., Purnomo, S. N., & Kurniawan, F. (2015). Studi Penggunaan Air di PT . Holcim Indonesia Pabrik Cilacap. Jurnal Teknik Sipil, 13(2), 173–182.



- Levenspiel, O. (1999) Chemical Reaction Engineering. John Wiley & Sons, Inc.
- Levin, M. E., Gonzales, N. O., Zimmerman, L. W., & Yang, J. (2006). Kinetics of acid-catalyzed cleavage of cumene hydroperoxide. *Journal of hazardous materials*, 130(1-2), 88-106.
- Liu, H., Lu, G., Guo, Y., Guo, Y., & Wang, J. (2006). Chemical kinetics of hydroxylation of phenol catalyzed by TS-1/diatomite in fixed-bed reactor. *Chemical Engineering Journal*, 116(3), 179–186. <https://doi.org/10.1016/j.cej.2005.12.001>
- Lloyd E. Brownell, & Edwin H. Young. (1959). *Process Equipment Design*.
- Lu, Y., Sheng, X., Zhang, J., Wang, Y., Du, L., & Zhu, J. (2022). Cumene autooxidation to cumene hydroperoxide based on a gas-liquid microdispersion strategy. *Chemical Engineering and Processing - Process Intensification*, 174. <https://doi.org/10.1016/j.cep.2022.108861>
- Lutfi Noorghany Permadi, & Widyastuti, M. (2013). Studi Kualitas Air Sungai Donan Sekitar Area Pembuangan Limbah Industri Pertamina RU IV Cilacap. *Journal of Chemical Information and Modeling*, 53(9), 1689–1699.
- Mullin, J. W. (2001). *Crystallization*. Elsevier.
- National Center for Biotechnology Information. "PubChem Compound Summary for CID 241, Benzene" PubChem, <https://pubchem.ncbi.nlm.nih.gov/compound/241>. Accessed 31 Oktober, 2024.
- Nfodzo, P., Dionysiou, D. D., & Choi, H. (2012). Water supply and treatment. *Encyclopedia of Environmetrics*, 3(September). <https://doi.org/10.1002/9780470057339.vnn119>
- Nicholas P. Cheremisinoff. (2002). *Handbook of Water and Wastewater Treatment Technologies*. Butterworth-Heinemann.
- Occupational Safety and Health Administration. (2013). Process safety management of highly hazardous chemicals (Standard No. 1910.119). U.S. Department of Labor. <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.119>
- Occupational Safety and Health Administration. (2023). Emergency action plans (Standard No. 1910.38). U.S. Department of Labor. <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.38>



Occupational Safety and Health Administration. (2023). Hazardous waste operations and emergency response (Standard No. 1910.120). U.S. Department of Labor. <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.120>

Pemerintah Provinsi Jawa Tengah. (2024). Lampiran Upah Minimum Kabupaten/Kota dan Upah Minimum Sektoral di Provinsi Jawa Tengah Tahun 2025.

Pemerintah Republik Indonesia. (1999). Peraturan Pemerintah Nomor 41 Tahun 1999 tentang Pengendalian Pencemaran Udara. <https://peraturan.bpk.go.id/>

Pemerintah Republik Indonesia. (2001). Peraturan Pemerintah Nomor 82 Tahun 2001 tentang Pengelolaan Kualitas Air dan Pengendalian Pencemaran Air beserta Lampiran Baku Mutu Air. Lembaran Negara Republik Indonesia Tahun 2001 Nomor 153.

Perry, R. H., & Green, D. W. (1997). Perry's Chemical Engineers Handbook (7th Edition).

Peters, M. S., Timmerhaus, K. D., & West, R. E. (2003). Plant Design and Economics for Chemical Engineers (5th ed.). McGraw-Hill.

Peterson, G. A., & Schmidt, R. J. (2004). Q-MAXTM PROCESS FOR CUMENE PRODUCTION. www.digitalengineeringlibrary.com

Peterson, G. A., & Schmidt, R. J. (2004). Q-MAXTM PROCESS FOR CUMENE PRODUCTION. www.digitalengineeringlibrary.com

Powell, S. T. (1954). WATER CONDITIONING FOR INDUSTRY (First Edition). McGraw-Hill, Inc.

Rahayu, D. S. A., & Subagiyo, A. (2018). Studi Sanitasi Lembaga Pemasarakatan Kelas IIB Dikabupaten Cilacap Tahun 2017. Buletin Keslingmas, 37(2), 204–211. <https://doi.org/10.31983/keslingmas.v37i2.3866>

Rahmad Nur Setiawan, Tricahyono NH, & Siti Dahlia. (2020). Prediksi Kebutuhan Air Bersih Desa Pinggirpapas Kecamatan Kalianget Kabupaten Sumenep Madura Provinsi Jawa Timur Pada Tahun 2029. Jurnal Geografi, Edukasi Dan Lingkungan (JGEL), 4(1), 25–31. <https://doi.org/10.29405/jgel.v4i1.4261>

Rase, H. F. (1977). CHEMICAL REACTOR DESIGN FOR PROCESS PLANTS (Vol. 10, Issue 393). John Wiley & Sons, Inc.



Republik Indonesia. (1970). Undang-Undang Nomor 1 Tahun 1970 tentang Keselamatan Kerja. Lembaran Negara Republik Indonesia Tahun 1970 Nomor 1.

Robert H. Perry. (1999). Perry's Chemical Engineers' Handbook. The McGraw-Hill Companies.

Rosyidiin, A. F., Nugroho, A., & Amrullah, H. N. (2017). ANALISIS RISIKO DENGAN METODE LAYER OF PROTECTION ANALYSIS PADA REACTOR PLATFORMING DI INDUSTRI PETROKIMIA.

Schmidt, R. J. (2006). Cumene Production. <https://doi.org/10.1081/E-ECHP-120026490>

Sinnot, R. K. (2005). Chemical Engineering Design: Vol. Volume 6 (Fourth Edition). Elsevier Butterworth-Heinemann.

Sinnot, R. K. (2020). Chemical Engineering Design.

Sinnott, R., & Towler, G. (2019). Chemical Engineering Design. In Chemical Engineering Design: SI Edition. <https://doi.org/10.1016/B978-0-08-102599-4.09980-X>

Smith, J. M., 1981, Chemical Engineering Kinetics. McGraw-Hill, New York.

Speight, J. G. (2019). Handbook of Petrochemical Processes. <https://www.crcpress.com/Chemical-Industries/>

Supriyatin. (2013). Manajemen Produksi dan Operasi. 2.

Tchobanoglous, G., L. Burton, F., & Stensel, D. H. (2003). Wastewater Engineering: Treatment and Reuse (Fourth Edition). In McGraw Hill Companies, Inc. (Issue 7).

Treybal, R. E. (1980). MASS-TRANSFER OPERATIONS (J. J. Carberry, J. R. Fair, M. S. Peters, W. R. Schowalter, & J. Wei, Eds.). McGraw-Hill, Inc.

Ulrich, G. D. (1984). A Guide to Chemical Engineering Process Design and Economics. 484.

Wei, H., Du, C., Ke, F., Li, X., & Zhao, J. (2025). Research on modeling strategy of centrifugal air compressor in vehicle PEMFC's air supply subsystem based on machine learning. Fuel, 381, 133495. <https://doi.org/10.1016/j.fuel.2024.133495>

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



Prarancangan Pabrik Hidrokuinon dari Benzena dan Propilena dengan Kapasitas 10.000 ton/tahun
Raehan Abdussalam, Ir. Moh Fahrurrozi, M.Sc., Ph.D., IPU.

Universitas Gadjah Mada, 2025 | Diunduh dari <http://etd.repository.ugm.ac.id/>

UNIVERSITAS
GADJAH MADA

Ziphora, F. (2022). Pentingnya Sistem Manajemen dan Struktur Organisasi dalam Suatu Usaha.

Leadership and Management in Engineering, 12(1), 20–23.