

DAFTAR PUSTAKA

- American Society for Testing and Material (ASTM). (2001). *ASTM Standar Practice for Sampling D1066*.
- Aries, R. S., and Newton, R. D. (1955). *Chemical Engineering Cost Estimation*. McGraw-Hill, New York.
- Bank Indonesia. (2024). *Suku Bunga Pinjaman Rupiah yang Diberikan Menurut Kelompok Bank dan Jenis Peminjaman*. Diakses pada 18 Maret 2024.
- Bays, J., Gieleciak, R., Viola, M. (2021). *Detailed Compositional Comparison of Hydrogenated Vegetable Oil with Several Diesel Fuels and Their Effects on Engine-Out Emissions*. Kanada.
- Brown, G. G. (1950). *Unit Operations*. New Delhi: CBS Publishers & Distributors.
- Brown, G.G. (1973). *Unit Operations*. 13rd ed., Charles E. Turtle Co., Tokyo.
- Brown, George Granger. (1950). *Unit operation (Modern Asia ed.)*. New York: John Wiley & Sons.
- Brownell, E., L., Young, E., H. (1959). *Process Equipment Design*, John Wiley & Sons, Inc. New York.
- Cheremisnoff, Nicholas. (2002). *Handbook of Water and Wastewater Treatment Technologies*. Edisi ke-1. Washington DC: United States of America.
- Coulson, J.M., Richardson, J.F., Sinnott, R.K. (1983). *Chemical Engineering Vol. VI: an Introduction to Chemical Engineering Design (VI)*. Oxford: Pergamon Press.
- Crowl, Daniel A., and Joseph F. Louvar. (1990). *Chemical process safety: fundamentals with applications*. Englewood Cliffs, N.J.: Prentice Hall & Sons.
- Degremont. (1991). *Water Treatment Handbook*. Edisi ke-6. Francis: Lavoisier Publishing.
- Diamant, D. (2016). *Metode untuk Memproduksi Emulsi Berair dari Kopolimer Blok Tersulfonasi Blok Tengah*. Paten KR20160140901A.
- Elissa, A. dan Saptomo, S. K. (2019). *Analisis Timbulan Lumpur dan Kualitas Lumpur Hasil Proses Pengolahan Air Bersih di WTP Kampus IPB Dramaga Bogor*. *Jurnal Teknik Sipil & Lingkungan*. 5(1) hal: 31-40.
- Erowid. (2005). *Synthesis of Phenyl Acetic Acid*. <https://www.erowid.org/archive/rhodium/chemistry/phenylacetic.html>.
- Fogler, H. S. (2016). *Elements of chemical reaction engineering (5th ed.)*. Prentice Hall.
- Foust, A.S. (1979). *Principles of Unit Operation*. London: John Wiley & Sons.
- Fukunaga K., Ide S. (1977). *Reactions of Benzyl Halides in Aqueous Cyanide Solution in the Presence of Phase-Transfer Catalyst*. *Journal of the Chemical Society of Japan*. Volume 1997, Issue 9. p.g. 1379-1384.
- Geankoplis, C, J. (1997). *Transport Processes and Separation Process Principles*. Edisi ke-3. New Jersey : Prentice Hall.
- Geankoplis, C, J. (2003). *Transport Processes and Separation Process Principles*. Edisi ke-3. New Jersey : Prentice Hall.

- Geankoplis, C.J. (1993). *Transport Processes and Unit Operations*. Prentice-Hall International, Inc., Upper Saddle River, NJ.
- Glatzer, H.J., Desikan, S., & Doraiswamy, L.K. (1998). Triphase catalysis: a new rotating disk contactor for measuring mass transfer coefficients. *Chemical Engineering Science*, 53, 2431-2449.
- Halepoto, I. Khaskheli, S. (2016). Modeling of an Integrated Energy Efficient Conveyor System Model using Belt Loading Dynamics. *Indian Journal of Science and Technology*. 9. 10.17485/ijst/2015/v8i1/108658.
- Hammer. (1985). *Water and Wastewater Technology*. Edisi Ke-2. Canada: John Willey & Sons Inc.
- HeatWork Organizing. (2021). HeatWork Industrial Heating Solution. Norwegia.
- Hengstebeck, R. J. (1985). A Simplified Method for Solving Multicomponent Distillation Problems. *Trans. AIChE*. 42,309-329.
- Hill, J. W., & Fry, A. (1962). Chlorine Isotope Effects in the Reactions of Benzyl and Substituted Benzyl Chlorides with Various Nucleophiles. *Journal of the American Chemical Society*, 84(14), 2763–2769. doi:10.1021/ja00873a025. <http://ecoursesonline.iasri.res.in/mod/page/view.php?id=852> diakses 27 Juni 2023
- <http://www.matche.com/equipcost/EquipmentIndex.html>. Diakses pada 18 Maret 2024.
- <https://www.alibaba.com/>. Diakses pada tanggal 18 Maret 2024.
- https://www.gilmorekramer.com/more_info/model_sl_conveyor/model_sl_heavy_duty_horizontal_slat_conveyor.shtml diakses 27 Juni 2023.
- <https://www.indiamart.com/>. Diakses pada 18 Maret 2024.
- <https://www.indiamart.com/proddetail/>
- <https://www.sigmaaldrich.com/ID/en/product/aldrich/p16621>
- <https://www.sigmaaldrich.com/ID/en/product/aldrich/p16621>
- <https://www.sigmaaldrich.com/ID/en/product/aldrich/w287806>.
- <https://www.sigmaaldrich.com/ID/en/product/mm/10121>
- <https://www.sigmaaldrich.com/ID/en/product/mm/10121>.
- <https://www.tceconveyors.com/roach-model-ppf-series-900-flat-top-plastic-belt-parts-with-flights> diakses 27 Juni 2023.
- Huang et al. (2014). *United States of America Patent*. No 8,921,591 B2.
- Internation Property Measurement Standard (IPMS). (2018). *International Property Measurement Standards: Industrial Building*.
- Kemmer. F. N. (1988). *The Nalco Water Handbook*. 2nd Edition. McGraw-Hill Book Company. New York.
- Kern, D.Q. (1950) *Process Heat Transfer*. Mc Graw Hill, New York.
- Kirchnerová, J. dan Genille C. B. Cave. (1976). The solubility of water in low-dielectric solvents. *Canadian Journal of Chemistry*. 54(24): 3909-3916.
- Kreith, Frank. (2011). *Principles of Heat Transfer 7Th. (Seventh Edition)*. Australia: Cengage Learning.
- Luthy, R., G., & Bruce., S., G., Jr. (1979). Kinetics of Reaction of Cyanide and Reduced Sulfur Species to Form Thiocyanate. United States Department of Energy.
- McCabe, W., L., Smith, J., C., Harriot, P. (1993). *Unit Operations of Chemical Engineering*. McGraw-Hill, Inc.

- Menezes, A. C., Cripps, A., Buswell, R. A., Wright, J., & Bouchlaghem, D. (2014). *Estimating the energy consumption and power demand of small power equipment in office buildings. Energy and Buildings*, 75, 199–209.
- Metcalf & Eddy. (1984). *Wastewater Engineering Treatment, Disposal, Reuse*. New Delhi: McGraw Hill Book Company.
- Milne, J.E., Storz. T., Colyer, J. T., Thiel, O. R., Seran, M. D., Larsen, R. D., Murry, J. A. (2011). *The Journal of Organic Chemistry*. 76 (22), 9519-9524. DOI: 10.1021/jo2018087.
- Murthy, Z. V. P., & Gupta, S. K. (1999). Sodium Cyanide Separation and Parameter Estimation for Reverse Osmosis Thin Film Composite Polyamide Membrane. *Journal of Membrane Science*, 154(1), 89–103. doi:10.1016/s0376-7388(98)00280-4.
- Organic Syntheses. (1992). Benzile Cyanide (α -Tolunitrile). URL: <http://www.orgsyn.org/demo.aspx?prep=CV1P0107>
- Oktavian, M. F., dan Praditama, R. (2020). Prarancangan Pabrik Asam Fenil Asetat dari Benzil Sianida dan Asam Sulfat dengan Proses Hidrolisis Kapasitas 4.500 Ton/Tahun. *Jurnal Tugas Akhir Teknik Kimia*. 3(2).
- Open Data Kabupaten Gresik Tahun 2020. (2020). Pengamatan Unsur Iklim Menurut Bulan di Stasiun Gresik. URL: <http://data.gresikkab.go.id/mk/dataset/pengamatan-unsur-iklim-menurut-bulan-di-stasiun-gresik/resource/809b1949-05ee-4ae6-b611-56747910903e>.
- Organic Syntheses. (1991). *Comprehensive Organic Syntheses*. Coll. Vol.1, p.436.
- Pemertintah Provinsi Jawa Timur. (2009). *Laporan Pemerintahan Provinsi Jawa Timur*. Rencana Kerja Pemerintah Daerah Kabupaten Gresik.
- Perry, R. H. (1997). *Perry's Chemical Engineers's Handbook*. New York: McGraw- Hill Companies, Inc.
- Perry, R.H and Green, D.W. (2008) *Perry's Chemical Engineering Handbook*. 8th Edition, McGraw-Hill, New York.
- Peter, M.S. dan Timmerhaus, K.D. (2003) *Plant Design and Economics for Chemical Engineers*. 4th ed., McGraw-Hill Book Company, New York (Chapter 6 & 7).
- Peters, M.S., and Timmerhaus. (1980). *Plant Design and Economy for Chemical Engineer's*. 3rd Edition, Mc Graw Hill Book Company Inc. Singapore.
- Peters, Max S., Timmerhaus, Klaus D.. (1991). *Plant design and economics for chemical engineers (4th ed)*. New York: McGraw-Hill.
- Powell, Sheppard T. (1954). *Water conditioning for industry* (International student edition). Tokyo: McGraw Hill.
- Qiu, Z., He, Y., Zheng, D., & Liu, F. (2005). Study on the Synthesis of Phenylacetic Acid by Carbonylation of Benzyl Chloride under Normal Pressure. *Journal of Natural Gas Chemistry*.
- Rachman, S. D., Safari, A., Kamara, D.S., Sidik, A., Udin, L. Z. (2016). Produksi Penisilin oleh *Penicilium chrysogenum* L112 dengan Variasi Kecepatan Agitasi pada Fermentor 1 L. *Jurnal Ilmiah Farmasi*. 4(2). Hal 1-6.
- Rahmandani, A., Bastomy, M., A. (2021). Prarancangan Pabrik Asam Fenil Asetat dari Benzil Sianida, Asam Sulfat, dan Air dengan Kapasitas Produksi 1.500

- Ton/Tahun. *Skripsi*. Jurusan Teknik Kimia, Fakultas Teknik, Universitas Islam Indonesia. Yogyakarta.
- Rase, H.F., dan J.R., Holmes. (1977). *Chemical Reactor Design for Process Plants*, Willey and Son, New York, vol.1
- Reklaitis, G.V. (1983). *Introduction to Material and Energy Balance*. New York: McGraw- Hill Book Company.
- Saleh, S., N., (2010), Basic Concepts of Prilling Tower Design, International Conference on Chemical & Environmental Engineering, Military Technical College, Cairo
- Sekretariat Kabupaten Gresik. (2021). Akuntabilitas Kinerja Pemerintah Kota Gresik. URL: <https://www.gresikkab.go.id/documents/1649305892-AKUNTABILITAS%20KINERJA%20PEMKAB%20GRESIK%202021.pdf>
- Sinnott, R.K. (1999). *Coulson and Richardson's Chemical Engineering Volume 6*, Chemical Engineering Design. Butterworth-Heinemann, Oxford.
- Sinnott, R.K. (2005) *Chemical Engineering Design: Chemical Engineering Volume 6 (Chemical Engineering Series)*.4th Edition, Butterworth-Heinemann, Oxford.
- Smith, J.M., Van Ness, H.C. and Abbott, M.M. (2005) *Introduction to Chemical Engineering Thermodynamics*. 7th International Edition, McGraw-Hill Chemical Engineering Series. McGraw-Hill, Boston.
- Spielman, W., Schaeffer, G. (1982). Process for The Manufacture of Phenylactic Acid and Simple Derivatives Thereof (US Patent No. 4339594). Hoechst Aktiengesellschaft.
- Střiteská, L., Hnědkovský, L. & Cibulka, I. (2006). Partial Molar Volumes of Phenylacetic Acid and Several Polysubstituted Benzenes at Infinite Dilution in Water at Temperatures $T = 298$ to 373 K and at Pressures up to 30 MPa. *J Solution Chem* 35. 1029–1036.
- Syeda, A. B., Koppula, A. J., Boodida, S., & Nallani, S. (2010). Excess Molar Volumes and Sound Speed in (Phenylacetonitrile + 1,2-Dichloroethane), (Phenylacetonitrile + 1,1,2-Trichloroethane), (Phenylacetonitrile + 1,1,2,2-Tetrachloroethane), (Phenylacetonitrile + Trichloroethene), and (Phenylacetonitrile + Tetrachloroethene) at Temperatures of (303.15, 308.15, and 313.15) K. *Journal of Chemical & Engineering Data*. 55(3), 1405–1410. doi:10.1021/jc900570e.
- Taha, W., Al-Zir, F., Abou-Khousa, M.A., Al-Durra, A., Al-Wahedi, K., & Prayudi, I. (2017). Compact screw conveyor for flow metering at a laboratory-scale flow loop. *2017 IEEE Conference on Systems, Process and Control (ICSPC)*, 7-11
- The American Society of Mechanical Engineering (ASME). (2021). *ASME Boiler & Pressure Vessel Code Section VI*.
- Towler., Gavin. P., Sinnott., Ray. K. (2013). *Chemical Engineering Design: principles, practice and economics of plant and process design* (Ed. 2nd). Oxford: Butterworth-Heinemann.
- Treybal. R. E. (1980). *Mass Transfer Operations*. McGraw-Hill, New York.
- U.S. Department of Labor. (2024),. Diakses pada tanggal 18 Maret 2024.

- Ukifda. (2023). *HVO Handbook: Guidance on Industry Conversion to Hydrotreated Vegetable Oil*. OFTEC.
- Ulrich, G.D., Vasudevan, P.T. (1984). *Chemical Engineering Process Design and Economics: A Practical Guide*. Durham. N.H, Process Pub.
- United Nation Data Statistic. (2022). Phenylacetic Acid Commodity Trade. URL: https://data.un.org/Data.aspx?q=phenylacetic+acid&d=ComTrade&f=_11Code%3a30%3bcmdCode%3a291634.
- US Patent. United States Patent No 4128572. (1978). *Process for preparing phenylacetic acid*.
- Vatavuk. W. M. (2022). *Updating the CE Plant Cost Index*. Chemical Engineering. Vatavuk Engineering.
- Volk, M., (2013), *Pump Characteristics and Application*, CRC Press.
- Walas, S.M. (1988). *Chemical Process Equipment: Selection and Design*.
- Walas, S. M. (1990). *Chemical Process Equipment: Selection and Design*. Oxford: Butterworth Heinemann.
- Wang, K.L., Chen, J.P., Hung, Y.T., Shammas, N.K.. (2011). *Membrane and Desalination Technologies*. Vol. 13, Humana Press, London", p448.
- Widiasari, A.T. Y. (2022). Prarancangan Pabrik Asam Fenil Asetat dari Benzil Sianida, Asam sulfat, dan Air Kapasitas 20.000 Ton/Tahun. *Skripsi*. Fakultas Teknik, Universitas Negeri Surakarta Sebelas Maret.
- Winkelmann, J. (2007). *Diffusion of helium (1); trifluoro-methane (2)*. *Landolt-Börnstein - Group IV Physical Chemistry*, 596–596. doi:10.1007/978-3-540-49718-9_337.
- Yaws, Carl.L. (1999). *Chemical Properties Handbook*. New York: McGraw-Hill.
- Yongliang, D., Fei, Z., Yang, Q., Jing, L., Lili, Z. (2013). Preparation Method of Phenylacetic Acid (China Patent No. 103232338A). Chongqing Unisplendour Chemical Co, Ltd.