

## DAFTAR PUSTAKA

- American Boiler Manufacturers Association. (2018). Retrieved from <https://www.abma.com/>
- Aries, R. S. dan Newton, R. D. 1954. *Chemical Engineering Cost Estimation*. Mc Graw Hill Book Company Inc. New York.
- Baker R. W., 1991, "Membrane Technology and Applications", Membrane Technology and Research, Inc., California.
- Brändle J, Domig K.J, Kneifel W., 2016. Relevance and analysis of butyric acid producing clostridia in milk and cheese. *Food Control* 67: 96–113.
- Brown, G. G., Katz, D., Foust, A. S., and Schneidewind, C., 1950, "Unit Operation", John Wiley and Sons, Inc., New York
- Brownell, L.E dan Young, E.H., 1959., "Equipment Design", John Willey & Sons, Inc., New York.
- Buros, O. K., 2000, "The ABSs of Desalting", International Desalination Association, Topsfield, Massachusetts.
- BPS Gresik Regency. (2013). *Gresik*. 1–10. Retrieved from <http://bappeda.jatimprov.go.id/bappeda/wp-content/uploads/potensi-kab-kota-2013/kab-gresik-2013.pdf>
- BPS Statistics Indonesia. (2018). *tp s : // w w w id Edisi Revisi ht tp s : // w w*.
- Coulson, J.M. and Richardson, J.F., 2005, "Chemical Engineering Design", Chemical Engineering vol. 6 4th ed., Elsevier Butterworth – Heinemann, Oxford.
- Couper, J.R., Penney, W.R., Fair, J.R., 2012, "Chemical Process Equipment: Selection and Design", 3 ed., Butterworth – Heinemann, *Massachusetts*.
- Crowl, D.A dan Louvar, J.F. 2002. "Chemical Process Safety". Prentice Hall, New Jersey.
- DOW, C. (1990). Dowex – 50 – WX8 – 50 – 100 – resin. *Trademark of The Dow Chemical Company, 117 – 01509 – , 9*.
- Dwidar, M., Park, J. Y., Mitchell, R. J., & Sang, B. I. (2012). The future of butyric acid in industry. *The Scientific World Journal*, 2012. <https://doi.org/10.1100/2012/471417>
-

- Geankoplis, C.J. 1997. *Transport Process and Unit Operation*. Third Edition. New Delhi: Prentice – Hall of India.
- Green, D. W., & Perry, R. H. (2008). *Perry's Chemical Engineers' Handbook* (8th ed.). McGraw – Hill, Inc.
- Ju, I. B., Lim, H. W., Jeon, W., Suh, D. J., Park, M. J., & Suh, Y. W. (2011). Kinetic study of catalytic esterification of butyric acid and n – butanol over Dowex 50Wx8 – 400. *Chemical Engineering Journal*, 168(1), 293–302. <https://doi.org/10.1016/j.cej.2010.12.086>
- Kaymak D. B., and Luyben W. L., “*Quantitative Comparasion of Reactive Distillation with Conventional Multiunit Reactor/Column/Recycle Systems for Different Chemical Equilibrium Constants*” 2004, *Ind. Eng. Chem. Res*, 43 (10), pp – 2493 – 2507
- Kementerian Lingkungan Hidup dan Kehutanan RI. (2007). *Peraturan Menteri Negara Lingkungan Hidup Nomor 7 Tahun 2007 Tentang Baku Mutu Emisi Sumber Tidak Bergerak Bagi Ketel Uap*.
- Keputusan Menteri Lingkungan Hidup Nomer 51 Tahun 2004 tentang Baku Mutu Air Laut, diakses pada 12 April 2021.
- Kern, D.Q., 1983, *Process Heat Transfer*. 21st Ed. McGraw – Hill Book Company Inc., Tokyo.
- Krisnan, R., Retnani, Y., Tangendjaja, B., Mutia, R., & Jayanegara, A. (2019). In ovo Feeding of Butyric Acid Replacing Antibiotics Function to Increase Poultry Productivity. *Indonesian Bulletin of Animal and Veterinary Sciences*, 29(1), 35. <https://doi.org/10.14334/wartazoa.v29i1.1918>
- Kucera, J., 2010, “Reverse Osmosis, Industrial Application and Processes”, Scrivener Publishing, USA, p.171.
- LabChem. (2012). Safety Data Sheet . متاسلا تانايب قرشن Safety Data Sheet. *Material Safety Data Sheet*, 4(2), 8–10. Retrieved from [https://us.vwr.com/assetsvc/asset/en\\_US/id/16490607/contents](https://us.vwr.com/assetsvc/asset/en_US/id/16490607/contents)
- Lakovic, M., V. Lakovic, S., & Banjac, M. (2012). Analysis of the evaporative towers cooling system of a coal – fired power plant. In *Thermal Science* (Vol. 16).
-

<https://doi.org/10.2298/TSCI120426176L>

Lenntech, 2016, [www.lenntech.com](http://www.lenntech.com), diakses pada 12 April 2021.

*Material Safety Data Sheet.*

National Electrical Manufacturers Association. (1972). NEMA standards publication : stabilized power supplies direct – current output. New York :The Association.

Najid, A., Pariwono, P., Bengsen, D.G., Nurhakim, S., dan Atmadipoera A.S., 2012, “Pola Musiman dan Antar Tahunan Salinitas Permukaan Laut Di Perairan Utara Jawa – Madura”, Maspari Journal Universitas Sriwijaya, Palembang.

Ndaba, B., Chiyanzu, I., & Marx, S. (2015). N – Butanol derived from biochemical and chemical routes: A review. *Biotechnology Reports*, 8, 1–9. <https://doi.org/10.1016/j.btre.2015.08.001>

*Occupational Safety and Health Act.* 2000. “Process Safety Management”. Department of Labor, Washington D.C.

Omota, F., Dimian, A. D., and Rothenberg, G., (2006), The heterogeneous Advantage: Biodiesel by Catalytic Reactive Distillation, *Catalysis Today*, 40, 26 – 36

Peraturan Pemerintah Republik Indonesia No. 41 Tahun 1999 tentang Pengendalian Pencemaran Udara, diakses 13 April 2021.

Peraturan Kementrian Lingkungan Hidup Republik Indonesia Nomor 5 Tahun 2014 tentang Baku Mutu Air Limbah Industri Petrokimia.

Perdagangan, S., & Negeri, L. (n.d.). *Imports 201 9.*

Pereira, L. G., Dias, M. O. S., Mariano, A. P., Maciel Filho, R., & Bonomi, A. (2015). Economic and environmental assessment of n – butanol production in an integrated first and second generation sugarcane biorefinery: Fermentative versus catalytic routes. *Applied Energy*, 160(September 2015), 120–131. <https://doi.org/10.1016/j.apenergy.2015.09.063>

Perry, R. H., & Green, D. W. (2008). *Perry's chemical engineers' handbook.* New York: McGraw – Hill Book Company.

Pont, D. (2010). *Material Safety Data Sheet Material Safety Data Sheet.* 1–5.

Powell, S. T. (1954). *Water Conditioning for Industry.* McGraw – Hill, Inc.

- Rase, H. F., and Barrow, M. H., 1977, “Chemical Reactor Design for Process Plant”, 1<sup>st</sup> ed., Mc Graw Hill Book Company, Inc., New York.
- Rendell, E.G. dan McGinty, K.A. 2004. “Environmental Management Systems: A Guidebook for Improving Energy and Environmental Performance in Local Government”. Five Winds International, Colorado.
- Rizal, R. (2014). *AMDAL, UKL – UPL dan SPPL*. 202.
- Schweitzer, Philip A. 1979. *Handbook of Separation Techniques for Chemical Engineers* McGraw – Hill Book Company.
- Science Lab. Chemicals and Laboratory Equipment. (2013). Material Safety Data Sheet Hydrochloric acid MSDS. <Http://Www.Sciencelab.Com/Msds.Php?MsdsId=9924285>, 3, 1–3. Retrieved from <http://www.sciencelab.com/msds.php?msdsId=9924285>
- Sinott, R.K., 1999, *Coulson and Richardson’s Chemical Engineering*. 3rd Ed, Linacre House, Jordan Hill, Oxford.
- Sinnott, R. K., 1983, “Coulson & Richardson’s Chemical Engineering Series : Chemical Engineering Design”
- Sinnott, R.K., 2005, “Chemical Engineering Design”, 4 ed., Elsevier, Oxford.
- Steel, S. (2013). Applications Potential Architectural Moldings and Trim Kitchen Equipment. Product Data Bulletin. Retrieved from [https://www.aksteel.com/sites/default/files/2018-01/304304L201706\\_1.pdf%0Ahttp://www.aksteel.com/sites/default/files/2018-01/304304L201706\\_1.pdf](https://www.aksteel.com/sites/default/files/2018-01/304304L201706_1.pdf%0Ahttp://www.aksteel.com/sites/default/files/2018-01/304304L201706_1.pdf)
- Tchobanoglous, G., Burton, F.L., Stensel, H.D., 2003, “Wastewater Engineering Treatment and Reuse”, 4th ed., Mc.Graw Hill, People’s Republic of China, p. 324
- Timmerhaus, K.D., Max S. Peters, and Ronald E. West, 1990, *Plant Design and Economics for Chemical Engineers*, Mc.Graw Hill Book Company Inc., New York
- Treybal, R. E. (1981). *Mass Transfer Operations* (3rd ed.). McGraw – Hill Book Company.
- Ulrich, G.D.1984. *A Guide to Chemical Engineering Process Design and Economics*. John

Wiley and Sons Inc., USA.

Vieville, C., Moulooungui, Z., and Gaset, A., (1993), Etherification of Oleic Acid by Methanol Catalyzed by p – Toluenesulfonic Acid and the Cation – exchange Resin K2411 and K1481 I Supercritical Carbon Dioxide, *Industrial Engineering Chemical Research*, 32, 2065 – 2068

Walas, Stanley M., 1988. *Chemical Proses Equipment*. Departement of Chemical and Petroleum Engineering. University of Kansas.

Wang, K.L., Chen, J.P., Hung, Y.T., Shammass, N.K., 2011, "Membrane and Desalination Technologies", Vol. 13, Humana Press, London", p. 448.

Wijayati, N., Rohmah, S. A., & Supartono, S. (2016). *SINTESIS ESTER – C SEBAGAI SENYAWA ANTIOKSIDAN MENGGUNAKAN BOKATALIS ENZIM LIPASE/ZEOLIT ALAM* Nanik Wijayati I\*, Siti Anisa Rohmah I , Supartono Supartono I I. 1(1).

Yaws, C.L., 1999, “Chemical Properties Handbook: Physical, Thermodynamic, Environmental, Transport, Safety, and Health Related Properties for Organic and Inorganic Chemicals”, Elsevier, Oxford.

Yaws, C. L. (2009). *Yaws’ Handbook of Thermodynamic and Physical Properties of Chemical Compounds – Enthalpy of Formation – Knovel*.

Zamani, 1998, *Manajemen*, Badan Penerbit IPWI, Jakarta.

Zohuri, B. (2016). *Compact heat exchangers: Selection, application, design and evaluation*. In *Compact Heat Exchangers: Selection, Application, Design and Evaluation*. <https://doi.org/10.1007/978-3-319-29835-1>

<https://www.alibaba.com/> diakses pada Kamis, 5 November 2020.

<https://www.kig.co.id/id/gresik/peta-gresik/> diakses pada Kamis, 5 November 2020.

<https://www.weather-forecast.com/locations/Gresik/forecasts/latest> diakses pada Kamis, 5 November 2020.

<https://www.intechopen.com/books/distillation – modelling – simulation – and – optimization/reactive – distillation – modeling – simulation – and – optimization> diakses pada Jumat, 6 November 2020.

<http://www.mech4study.com/2016/05/difference – between – centrifugal – pump – and – reciprocating – pump.html> diakses pada Jumat, 20 November 2020.

[https://www.globalspec.com/learnmore/flow\\_transfer\\_control/pumps/axial\\_flow\\_pumps](https://www.globalspec.com/learnmore/flow_transfer_control/pumps/axial_flow_pumps) diakses pada Jumat, 20 November 2020.

<https://www.matche.com/equipcost/Default.html> yang diakses pada Senin, 17 Mei 2021.

<http://www.mhhe.com/engcs/chemical/peters/data/ce.html> yang diakses pada Senin, 17 Mei 2021.

<https://www.nusantarareadymix.com/2017/02/harga – beton – cor – jayamix – blora.html#> yang diakses pada Senin, 17 Mei 2021.

<https://money.kompas.com/read/2021/04/03/110300526/rincian – umr – surabaya – 2021 – dan – 37 – daerah – lain – di – jawa – timur> yang diakses pada Rabu, 19 Mei 2021.

[https://www.jiipe.com/id/home/industri\\_jiipe](https://www.jiipe.com/id/home/industri_jiipe) yang diakses pada Jumat, 28 Mei 2021.

<https://keuangan.kontan.co.id/news/bunga – deposito – bank – bumn – btn – 375 – bank – mandiri – 325 – bri – 325 – bni – 313> yang diakses pada Minggu, 6 Juni 2021.