

## DAFTAR PUSTAKA

- Alibaba.com, 2021, diakses dari <https://www.alibaba.com/>, diakses pada tanggal 05 Desember 2021.
- Amitav Bhattacharya, Chapter 5 - High-Temperature Stress and Metabolism of Secondary Metabolites in Plants, Editor(s): Amitav Bhattacharya, Effect of High Temperature on Crop Productivity and Metabolism of Macromolecules, Academic Press, 2019, Pages 391-484, ISBN: 9780128175620, <https://doi.org/10.1016/B978-0-12-817562-0.00005-7>.
- Arch Chemical, Inc. 1999. "Safety And Handling of Hydrazine Solution". Washington DC.
- Aries, R. S. dan Newton, R. D., 1955, "Chemical Engineering Cost Estimation", McGraw-Hill, New York.
- Badan Pusat Statistik (BPS), 2020, diakses dari <http://www.bps.go.id/>, diakses pada tanggal 09 November 2021.
- Basunia M. & Abe T.. (2001). Thin Layer Solar Drying Characteristic of Rough Rice Under Natural Convection. *Journal of Food Engineering*, 295-301.
- Bozyel, M. E., Merdamert Bozyel, E., & Canli, K. (2020). Turkish Herbal Medicine in the Treatment of Back Pain. In Akash, Navneet, & B. Bhandari (Ed.), *Ethnomedicinal Plant Use and Practice in Traditional Medicine* (pp. 235-251). IGI Global. <http://doi:10.4018/978-1-7998-1320-0.ch012>
- Brown, G. G., Katz, D., Foust, A. S., and Schneidewind, C., 1950, "Unit Operation", John Wiley and Sons, Inc., New York.
- Brownell, L.E. and Young, E.H., 1979, "Process Equipment Design", John Wiley and Sons, Inc., New York.
- Cecep, K., Onrizal, & Sudarmadji. (2003). *Jenis - Jenis Pohon Mangrove di Teluk Bintuni, Papua*. Bogor: Fakultas Kehutanan Institut Pertanian Bogor.

- Characteristics of boiler feed water*. (2022, Maret 20). Retrieved from Lenntech: <https://www.lenntech.com/applications/process/boiler/boiler-feedwater-characteristics.html>
- Coulson, J. M., dan Richardson, J.F., 2005, “Chemical Engineering Design”, vol 6, 4th ed., Elsevier Butterworth-Heinemann, Oxford, pp. 208, 477.
- Couper, J. R., Penney, W. R., Fair, J. R., & Walas, S. M. (2012). "Chemical Process Equipment Selection and Design Third Edition". Oxford: Elsevier Inc.
- Crowl, D.A, Louvar, J.F. 2002. “Chemical Process Safety”. Prentice Hall. New Jersey.
- Cuong, D. X. et al. (2019) ‘Tannins : Extraction from Plants’, in Tannins - Structural Properties, Biological Properties, and Current Knowledge. Khanhhoa: Pacific Ocean University, pp. 1–14.
- Danis, K., Muhammad, A., & Danarto, YC. 2011. Pengambilan Tanin dari Kulit Kayu Bakau dan Pemanfaatannya Sebagai Adsorben Logam Berat Cuprum (Cu) dan Timbal (Pb). Pages 37-41, Vol.10. ISSN 1412-9124. Universitas Sebelas Maret.
- Darawsheh, Ismail & Islam, Md & Banat, F.. 2019. Experimental Characterization of a Solar Powered MSF Desalination Process Performance. Thermal Science and Engineering Progress.
- Dévay, A., 2013. The Theory and Practice of Pharmaceutical Technology. University of Pécs Institute of Pharmaceutical Technology and Biopharmacy Chapter 14.
- European Commission. 2006. “Emission from Storage”. Best Available Techniques Document.
- Evans, F.L, 1974, Equipment Design Handbook for Refineries and Chemical Plants, Vol. 2, Gulf Publishing Company: Houston.

Foust, AS, dkk, 198, Principles of Unit Operations, 2nd ed., John Wiley & Sons., New York.

Grubecki, I. 2015. Air Flow versus Pressure drop for a mixture of bulk wood chips and bark at different moisture contents. *Biosystem Engineering*, 100-110.

Hall, Carl W. 2001. An International Journal of Drying Technology. 447-450.

Handa, S. S., Khanuja, S. P., Longo, G., & Rakesh, D. D. (2008). *Extraction Technologies for Medicinal and Aromatic Plants*. Trieste: INTERNATIONAL CENTER FOR SCIENCE AND HIGH TECHNOLOGY.

Holman, J.P., 2010, Heat Transfer, 10th ed, McGraw-Hill: New York.

<http://Alibaba.com>, diakses pada tanggal 8 Juni 2022

<http://matche.com>, diakses pada tanggal 8 Juni 2022.

<http://www.bi.go.id>, diakses pada tanggal 8 Juni 2022.

<http://www.kpu.go.id>, diakses tanggal 8 Juni 2022

<http://www.mhhe.com>, diakses pada tanggal 8 Juni 2022.

<https://www.businesswire.com/news/home/20190224005075/en/The-Global-Market-for-Natural-Dyes-2019-to-2024---Leading-Vendors-are-Focusing-on-the-Development-Commercialization-of-Robotic-Technology-to-Sustain-Market-Competition---ResearchAndMarkets.com>. Diakses 09 November 2021.

<https://www.indiamart.com>, diakses pada tanggal 8 Juni 2022

Ismail. 2010. Flowsheet Pra Rancangan Pembuatan Tanin dari Biji Pinang Kapasitas Produksi 27.775 Ton/Tahun. Laporan Tugas Akhir Departemen Teknik Kimia Universitas Sumatera Utara.

- Kamble, D. B., Chavan, S. M., & Gujar, J. G. (2016). Study of Extraction of Tannic Acid from *Embllica Officinalis* (Amla). *International Journal for Scientific Research & Development*, 4(05), 1070-1072.
- Kern, D. Q., 1965, Process Heat Transfer, McGraw-Hill Book Company, Japan.
- KWS Design Engineering Manufacturing, Screw Conveyor Filter, 2015.
- Leba, M. A. U. (2017). Buku Ajar: Ekstraksi dan Real Kromatografi. Deepublish.
- Made-in-china.com, 2021, diakses dari [https://www. Made-in-china.com/](https://www.Made-in-china.com/), diakses pada tanggal 05 Desember 2021.
- Martin B. Hocking, 5 - Raw Water Processing and Wastewater Treatment, Editor(s): Martin B. Hocking, Handbook of Chemical Technology and Pollution Control (Third Edition), Academic Press, 2005, Pages 139-174, ISBN 9780120887965,
- Matatula, J., Poedjirahajoe, E., Pudyatmoko, S. & Sadono, R., 2019. keragaman Kondisi Salinitas Pada Lingkungan Tempat Tumbuh Mangrove di Teluk kupang. *Jurnal Ilmu Lingkungan*, 17(3), pp. 425-434.
- Material Safety Data Sheet.
- Matteo, Gazzani. 2015. Seawater Desalination: Thermal Desalination vs. Membrane. Separation Processes Laboratory, ETH Zurich.
- Nesbitt, B. (2006). *Handbook of Pumps and Pumping: Pumping Manual International*. Elsevier Science & Technology Books.
- Nguyen, D. Q., Allaf, K., & Nguyen, H. T. (2020). Volumetric Heat Transfer Coefficient In Spray Drying of Soymilk Powder. *Drying Technology*.
- Occupational Safety and Health Act. 2000. Process Safety Management. U.S. Department of Labor.

- Panjiva, 2021, diakses dari <https://panjiva.com/>, diakses pada tanggal 05 Desember 2021.
- Pansera, M. R. et al. (2004) 'Extraction of Tannin by *Acacia mearnsii* with Supercritical Fluids', *Brazilian Archives of Biology and Technology*, 47(6), pp. 995–998.
- Paridah, M.T. and Musgrave, O.C., 2006, Alkaline Treatment of Sulfonated Tanin-Based Adhesive from Mangrove to Increase Bond Integrity of Beech Slips, *Journal of Tropical Forest Science*, 18(2), 137 - 143.
- Paryanto, Suri, A. K., & Saputro, I. R. (2017). Difusi dan Transfer Massa pada Ekstraksi Tanin dari Buah Mangrove (*Rhizophora Stylosa*). *Jurnal Rekayasa Bahan Alam dan Energi Berkelanjutan*, 42-48.
- Peraturan Menteri Negara Lingkungan Hidup No. 03 Tahun 2010 tentang Baku Mutu Air Limbah bagi Kawasan Industri
- Peraturan Pemerintah Republik Indonesia No. 41 Tahun 1999 tentang Pengendalian Pencemaran Udara
- Perry, R.H., 1999, "Perry's Chemical Engineer's Handbook", 7 ed., p. 2.37-2.38, New York, McGraw-Hill Book Company.
- Peters, M. S., and Timmerhaus, K. D., 1991, *Plant Design and Economics for Chemical Engineers*, 4th ed., McGraw-Hill, Singapore.
- Plötze, M., & Niemz, P. (2010). Porosity and pore size distribution of different wood types as determined by mercury intrusion porosimetry. *European Journal of Wood and Wood Products*, 69, 649-657.
- Powell, S.T., 1954, "Water Conditioning for Industry", 1st ed., McGraw Hill Book Co., Tokyo.
- Rase, H.F., 1977, "Chemical Reactor Design for Process Plant", 1st ed., McGraw Hill Book Company, Inc., New York.

- Reisi, Mehdi & Niroumand, Behzad. (2012). Modeling of shear induced coarsening of dendrites during semisolid processing. *Materials Science and Technology*. 28. 1241-1245.
- Rocky Marius Q. de Ramos, Francis Dave C. Siacor & Evelyn B. Taboada. (2019) Chemical properties of waste mangrove bark and its potential uses, *International Wood Products Journal*, 10:4, 162-167, DOI: 10.1080/20426445.2019.1698810
- Sanou, Y., Pare, S., Baba, G., Segebeaya, N. K., Bonzi, L, Y. (2015), Removal COD in Wastewater by Activated Charcoal from Rice Husk. *Revue des Sciences de l'Eau* 29(3) (2016) 265-277.
- Saramak, Daniel & Kleiv, Rolf. (2013). The effect of feed moisture on the comminution efficiency of HPGR circuits. *Minerals Engineering*. s 43–44. 105–111. 10.1016/j.mineng.2012.09.014.
- Seabra, I. J. et al. (2018) ‘Influence of solvent additives on the aqueous extraction of tannins from pine bark : potential extracts for leather tanning’, *J. Chem Technol Biotechnol*, 93, pp. 1169–1182.
- Seveda, M. S. (2015). Design and performance evaluation of solar tunnel dryer for drying of industrial products. *International Journal of Renewable Energy Technology*, 245-260.
- Shredder Type*. (2022, Februari 15). Retrieved from Wensui Intelligent Equipment Inc.: [http://www.wensui.com/en/Products/Show\\_288.html](http://www.wensui.com/en/Products/Show_288.html)
- Sinnott, R. K., 1983, “Coulson & Richardson’s Chemical Engineering Series: Chemical Engineering Design”, *Chemical Engineering* vol. 6 4th ed., Elsevier Butterworth-Heinemann, Oxford.
- Smith, J.M., Van Ness, H.C., dan Abbot, M.M., 2001, *Introduction to Chemical Engineering Thermodynamics*, 6th ed, McGraw-Hill: New York.

- Smith. O., W. (1961). Mechanism of Gravity Drainage and Its Relation to Specific Yield of Uniform Sands. *Geological Survey Professional Paper*, 1-12.
- Subandriyo, & Setianingsih, N. I. (2015). Extraction Process for Reducing Tannin of Mangrove Fruit [*Bruguiera gymnorrhiza* (Lamarck, 1798)] as a Raw Material for Food Flour. *Aquatic Procedia*, 231-235.
- Tarleton, S., & Richard J, W. (2007). *Solid Liquid Separation: Equipment Selection and Process Design*. Oxford: Elsevier.
- Tinctures, Liquid Extracts, and Variations*. (2000, February 1). Retrieved from Relias Media: <https://www.reliasmedia.com/articles/44615-tinctures-liquid-extracts-and-variations>
- Towler, G., & Sinnott, R. (2013). *Chemical Engineering Design: Principles, Practice and Economics of Plant and Process Design*. Oxford: Elsevier.
- Ulrich, G.D., 1984, A Guide to Chemical Engineering Process Design and Economics, John Wiley and Sons, New York.
- Voutchkov, N., Water Environment Federation., & WateReuse Association. 2013. "Desalination Engineering: Planning and Design". New York: McGraw-Hill.
- Wahyulianingsih, W., Handayani, S., & Malik, A. (2016). Penetapan kadar flavonoid total ekstrak daun cengkeh (*Syzygium aromaticum* (L.) Merr & Perry). *Jurnal Fitofarmaka Indonesia*, 3(2), 188-193.
- Welty, J., Wicks, C.E., Wilson, R.E. and Rorrer, G.L. 2007. *Fundamentals of Momentum, Heat, and Mass Transfer*. 5th Edition, John Wiley & Sons Ltd., New York.
- Wina, E., Rakhmani, S. and Tangendjaja, B. (2010) 'Biological Activity of Tannins from *Acacia mangium* Bark Extracted by Different Solvents', *Media Peternakan*, 33(2), pp. 103–107.



- Yaws, C.L., 1999, Chemical Properties Handbook Physical, Thermodynamic, Environmental, Transport, Safety, and Health Related Properties For Organic and Inorganic Chemicals, McGraw Hill Book Companies, Inc., New York.
- Zhang, Q. W., Lin, L. G., & Ye, W. C. 2018. Techniques for extraction and isolation of natural products: a comprehensive review. Chinese medicine, 13, 20. <https://doi.org/10.1186/s13020-018-0177-x>.
- Zhao, Y. 2006. Considerations in designing a centrifugal atomiser for metal powder production. *Material & Design*, 745-750.