

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.

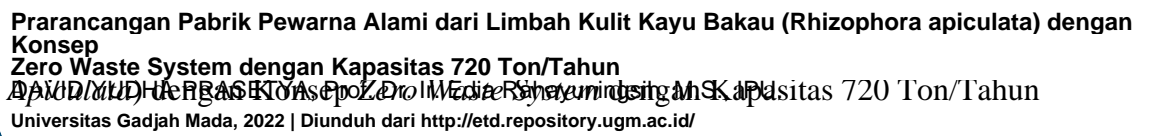
<http://www.kpu.go.id>, diakses tanggal 8 Juni 2022

<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 *Emblica 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
- 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 gymnorhiza* (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.