

## DAFTAR PUSTAKA

- Anne, Sarath Babu., G, Venkat Reddy., 2012., "Mathematical Modeling of Ammonia Converter" , International Conference on Chemical, Civil and Environmental, Dubai.
- Appl, Max., 1999, "Ammonia: Principles and Industrial Practice", Weinheim, New York.
- Aries, R. S. and Newton, R. D., 1955, *Chemical Engineering Cost Estimation*, pp. 1-16; 52; 77-78; 97-119; 163-164; 177; 185-197; 203-209, McGraw-Hill Book Company, Inc., New York.
- ASME (2013) *Rules for Construction of Pressure Vessels, ASME Boiler and Pressure Vessel Code*. New York.
- ASME B36.19M-2004. "Stainless Steel Pipe"
- Baboo, P., 2013, "Hydrogen Recovery from Purge Gas (Energy Saving)" , hal. 4-21, National Fertilizer Ltd., Vijaipur.
- Baboo, P., 2015, "Various Ammonia Technology" , hal. 79-86, National Fertilizer Ltd., Vijaipur.
- Backhurst, J.R., Harker, J.M., 1954, "Coulson & Richardson's Chemical Engineering Series : Chemical Engineering Design" , Chemical Engineering vol. 1 6th ed., Elsevier Butterworth-Heinemann, Oxford.

Baksh, M., dan Ackley, W., 2002, "Pressure Swing Adsorption Process for The Production of Hydrogen" , US Patentt 6340382.

Bartels, J. R., 2008, "A Feasibility Study of Implementing Ammonia Economy" , hal.

34-71, Graduate Theses and Dissertations of Iowa State University.

Blesl, Markus, and David Bruchof. 2010. "Syngas Production from Coal."

*EnergyTechnology Network* (May): 1–5.

Brown, G.G., Katz, D., Foust, A.S., and Schneidewind, C. 1950. "Unit Operation" . John Wiley and Sons, Inc: New York.

Brown, G.G., 1978, "Unit Operation" , Ed 3, McGraw Hill International Book Company, Tokyo.

Brownell, L.E and Young, E.H., 1959., "Equipment Design" , New York,John Willey & Sons, Inc.

Brownell, L.E and Young, E.H., 1979., "Equipment Design" , New York,John Willey & Sons, Inc..

Christiansen, L.J., Aika, K., Dybkjair, I., Hansen,J.,B., Nielsen, P., L., H., Nielsen, A.,Stoltze,P., Tamaru, K., 1995, " *Amonia : Catalysis and Manufacture*" , ed.1, hlm 199-242, Spinger Verlag Berlin, Jerman.

Cengel, A. Yunus & Boles, A. Michael. 2002. "Thermodynamics an Engineering Approach" , Fourth Edition. McGraw-Hill: New York.

Coulson, J.M., and Richardson, J.F. 1989. "An Introduction to Chemical Engineering" . Allyn and Bacon Inc: Massachusets.

Couper, J.R. 2005. "Chemical Process Equipment Selection and Design" . Elsevier: United Kingdom.

Couper, J. R., Penney, W. R., Fair, J. R., and Walas, S. M. 2012. "Chemical Process Equipment Selection and Design Third Edition". Oxford: Elsevier Inc.

Crowl, A.A. and Louvar, J.F., 2002, "Chemical Process Safety" , 2<sup>nd</sup> ed., PrenticeHall PTR, New Jersey.

Dyson, D.C., Simon, J.M., 1968, "A Kinetic Expression with Diffusion Correction for Ammonia Synthesis in Industrial Catalyst" , Rice University, Houston, Texas.

Edzwald, J. K., dan Haarhoff, J., 2011, "Seawater Pretreatment for Reverse Osmosis: Chemistry, Contaminants, and Coagulation" , Water Research 45 (11) 5436.

Eichman, J., Aaron, T., and Marc Melania. 2016, *Economic Assessment of Hydrogen Technologies Participating in California Electricity Markets*, National Renewable Energy Laboratory (NREL) ., New York.

Evans, F. L. 1980. "Equipment Design Handbook" . Gulf Publishing Company: Tokyo.

Esmailzadeh, M., dan Mohammadshahi, S., 2010, "Purge Gas Recovery in Ammonia Plants" , hal. 1-7, Razi Petrochemical Company, Iran.

Gary, C., dkk., 2009, "Method and Apparatus for Desalination" , US Patent 2074067.

Garibotti., 2003, "Centrifugal Pump Handbook" , First Edition, Termomeccanica Pompe, Italy.

Gillespie, L. J., Beattie, J. A., *Phys. Rev.* 36, 743 (1930).

and HighAsh Coal" , Wiley-VCH Verlag GmbH&Co. KGaA, Weinheim.

Gubernur Kalimantan Timur. 2018. "Keputusan Gubernur Kalimantan Timur Nomor 561/K.535/2018 Tahun 2018 tentang Penetapan Upah Minimum Provinsi Kalimantan Timur Tahun 2019" .

Hartman, H.F., et al , " Low Btu Coal Gasification Processes. Vol 2. Selected Process Description" , Oak Ridge National Laboratory 1978.

Heffer , P., dan Prud' homme, M., 2014, "Fertilizer Outlook 2014-2018" , 82<sup>nd</sup> IFA Annual Conference Journal , vol 14, 4.

Higman, Cristopher., dan Van Der Burgt, Maarten., 2003, "State Of Gas Gasification Industry- The Update Worldwide Gasification Database" . 2003 International Pittsburgh Coal Conference.

Holman, J. P., 2010, "Heat Transfer" , Tenth Edition., New York, McGraw-Hill Book Company.

Huang dkk., 2008, "Method for Zero Emission Liquid Hydrogen Production from Methane and Landfill Gas, US Patent 7332146

Jennings, J.R., 1991, "Catalytic Ammonia Synthesis : Fundamental and Practice" , Plenum Press, New York.

Ju, Gavin, 2013, "*Outlook for the Asian Ammonia & Urea Markets*" , IFA Crossroads

Asia-Pacific 2013, Bali, Indonesia.

Upah Minimum Kabupaten Kutai Timur Tahun 2020.

Kern, D.Q., 1965, "Process Heat Transfer" , Int.ed., New York, McGraw-Hill Book Company.

Kirk dan Othmer., 1998, "Encyclopedia of Chemical Technology" , vol.2,

edisi ke-4,hal. 335-362, John Wiley and Sons,Inc., New York.

Kurniawan, A., 2014, "Departemen Operasi Pabrik-3 PT. Pupuk Kalimantan Timur" , hal.59-102, Laporan Kerja Praktek Jurusan Teknik Kimia Universitas Gadjah Mada.

Kusnandar, Viva Budy. 2019. "70% Penduduk Kalimantan Berada di

Kutz, M., 2006, "Mechanical Engineer Handbook' s: Energy and Power," Ed 3, John Wiley and Sonc., Inc.

Lee, Hong.H., 1985, "Heterogeneous Reactor Design" ., Butterworth Publishers, United States of America.

Linde, 2008, " Hydrogen Recovery by Pressure Swing Adsorption" , hal. 3-8, Linde Group, Pullach.

Ludwig, E.E., 1964, "Applied Process Design for Chemical and Petrochemical Plants" , Vol.1, 3rd ed., Gulf Professional Publishing, London.

Maloney, James O., 2008, "Perry' s Chemical Engineers Handbook 8<sup>th</sup> Edition" , McGraw-Hill Companies, Inc., United States of America.

Metcalf and Eddy., 2003. "Wastewater Engineering Treatment and Reuse" , 4th ed. Mc Graw Hill Companies, Inc: Hongkong.

McCabe, W.L., Smith, J.C., Harriott, P., 1993, "Unit Operations of Chemical Engineering" ed.5, McGraw-Hill, New York.

Muchjidin., 2006, "Pengendalian Mutu dalam Industri Batu Bara" , Institut Teknologi Bandung, Bandung.

Pei, Peng, Scott F. Korom, Kegang Ling, and Junior Nasah, 2013, *Cost Comparison of Syngas Production from Natural Gas Conversion and Underground Coal Gasification*, Springer, New York.

Perry, R.H. dan Green, D.W., 1987, "Perry' s Chemical Engineer' s Handbook" , 6th ed., Mc Graw Hill Book Co., Singapore.

Perry, R.H., 1999, "Perry' s Chemical Engineer' s Handbook" , 7 ed., New York, McGraw-Hill Book Company.

Peters, M. S. and Timmerhaus, K. D., 2002, *Plant Design and Economics for Chemical Engineers*, 4th ed., pp. 150-209; 618-686; 708-713, McGraw-Hill Book Company, Inc., New York.

Powell, S.T. 1954. "Water Conditioning for Industry 1st ed" . Mc Graw Hill Book Co: Tokyo.

Rase, H.F. dan Barrow, M.H., 1957, "Project Engineering for Process Plant ", John Wiley and Sons, Inc., New York.

Reddy, P. (2016): *Energy Recovery from Municipal Solid Waste by Thermal Conversion Technologies, Energy Recovery from Municipal Solid Waste by Thermal Conversion Technologies*. <https://doi.org/10.1201/b21307>,

Republik Indonesia, Peraturan Pemerintah Republik Indonesia Nomor 41 / PP / 1999 tentang

Republik Indonesia, Peraturan Menteri Lingkungan Hidup Nomor 3 / PML / 2010 tentang

*Baku Mutu Air Limbah bagi Kawasan Industri.*

Republik Indonesia, Peraturan Menteri Perindustrian Nomor 35/M-IND/PER/3/  
2010 tentang *Pedoman Teknis Kawasan Industri.*

Smith, Philip.J., dan Smooth, L.Douglas., 1985, "*Coal Combustion and Gasification*" , Springer Science+Business Media., New York.

Sinnott, R. K., 1999, "Coulson & Richardson' s Chemical Engineering Series :  
Chemical Engineering Design" , Chemical Engineering vol. 6 3rd ed., Elsevier  
Butterworth-Heinemann, Oxford.

Sinnott, R. K., 2005, "Coulson & Richardson' s Chemical Engineering Series  
Chemical Engineering Design" , Chemical Engineering vol. 6 4th ed., Elsevier  
Butterworth-Heinemann, Oxford.

Sirait, M L., Endin, A., Pasaribu, J., Misran., Supramono., Widianoro., Y, Kartiko.,  
Soegondo., Failaka, F., Subandi, Abivara, H .(2013).Panduan Pengoperasian  
Pabrik Ammonia Kaltim 5 PT. Pupuk Kalimantan Timur

Smith, J.M., Van Ness, H.S., Abbott, M.M., 2001, "Introduction to Chemical  
Engineering Thermodynamics" , Six Edition., New York, McGraw-Hill Book  
Company.

Smith, J.M., Van Ness, H.C., and Abbott, M.M. 2005. "Introduction to Chemical Engineering  
Thermodynamics, 6th ed" . McGraw-Hill Book Company, Inc: New York.

Smith, R., 2005, "Chemical Process Design" , John Wiley & Sons Ltd, The Atrium,

Southern Gate, England.

Stapleton, P.J., Glover, M.A. 2001. "Environmental Management Systems: An  
implementation Guide for Small and Medium-Sized Organizations" , 2<sup>nd</sup> ed., EPA.

Sukandarrumidi, 2005, "Batu bara dan Pemanfaatannya" ,ed 1, hlm 16-17, Gadjah  
Mada Press, Yogyakarta.

Schaurnheim, D., 2006, "*Encyclopedia of Industrial Chemistry*" , ed 1, hlm  
18,Ullmann' s, Jerman.

Schermerhorn, J. R. *et al.* (2010) *Organizational Behavior*. 11th edn. United  
States:John Wiley & Sons, Inc.

Towler, G., dan Sinnott, R., 2007, "Chemical Engineering Design" , Mc. Graw Hill  
Book Co., New York.

Treybal, R.E., 1981, "Mass-Transfer Operations" , Int.ed., p. 139-210, Singapore,  
McGraw-Hill Book Company.

Ulrich, G. D., 1985, *A Guide to Chemical Engineering Process Design and  
Economics*, pp. 324-329, John Wiley and Sons, Inc., New York.

Vatavuk, William M., 2002, *Updating the CE Plant Cost Index*, [www.che.com](http://www.che.com),  
New York.

Yaws, C.L., 1999, "The Yaws Handbook of Vapor Pressure: Antoine Coefficients" ,  
Oxford, Elsevier.





UNIVERSITAS  
GADJAH MADA

**Prarancangan Pabrik Amonia dari Syngas Batubara dengan Hydrogen Recovery Menggunakan Pressure Swing**

**Adsorption (PSA) Kapasitas 400.000 Ton/Tahun**

Fajar Hendro Kartiko, Prof. Ir. Rochmadi, SU., Ph.D

Universitas Gadjah Mada, 2023 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Yaws, C.L. 1999. "Chemical Properties Handbook Physical, Thermodynamic, Enviromental,

Transport, Safety, and Health Related Properties For Organic and Inorganic

Chemicals. Mc Graw Hill Book Companies, Inc: New York.