UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Antrakuinon dari Benzena dan Anhidrida Ftalat dengan Kapasitas 40.000 Ton/Tahun
Faizah Marsya Salsabila, Prof. Ir. Arief Budiman, MS., D.Eng., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Adams, R. C. (1946). Production of anthraquinone (U.S. Patent No. 2,401,225A). United States Patent Office.

American Petroleum Institute. (1998). Welded steel tanks for oil storage (API Standard 650). API.

Aries, R. S., & Newton, R. D. (1956). Chemical engineering cost estimation. Journal of Chemical Education, 33(4), 194. https://doi.org/10.1021/ed033p194.1

Banten, P. (n.d.). Temui buruh, Gubernur Andra Soni tetapkan UMP Banten 2026 naik 6,74 persen. Retrieved June 13, 2026, from https://bantenprov.go.id/berita/temui-buruh-gubernur-andra-soni-tetapkan-ump-banten-2026-naik-674-persen

Borremans, M. (2019). *Pumps and compressors*. John Wiley & Sons, Incorporated.

Brown, G. G. (1950). Unit operations. John Wiley & Sons, Inc.

Brownell, L. E., & Young, E. H. (1959). Process equipment design.

Business Analytiq. (2025). *Aluminum chloride price index*. https://businessanalytiq.com/procurementanalytics/index/aluminum-chloride-price-index/

Business Analytiq. (2025). *Anthraquinone price index*. https://businessanalytiq.com/procurementanalytics/index/anthraquinone-price-index/

Business Analytiq. (2025). *Benzene price index*. https://businessanalytiq.com/procurementanalytics/index/benzene-price-index/

Business Analytiq. (2025). *Phthalic anhydride price index*. https://businessanalytiq.com/procurementanalytics/index/phthalic-anhydride-price-index/

Business Analytiq. (2025). *Sulfuric acid price index*. https://businessanalytiq.com/procurementanalytics/index/sulfuric-acid-price-index/

Coker, A. K. (2007). Ludwig's applied process design for chemical and petrochemical plants (4th ed., Vol. 1). Gulf Professional Publishing.

Devic, M. (1980). Process (French Patent No. 2,496,097). Produits Chimiques Ugine Kuhlmann.

UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Antrakuinon dari Benzena dan Anhidrida Ftalat dengan Kapasitas 40.000 Ton/Tahun
Faizah Marsya Salsabila, Prof. Ir. Arief Budiman, MS., D.Eng., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Diels, O., & Alder, K. (1928). Annalen der Chemie, 460, 98.

Dimitrijević, D., Bösenhofer, M., & Harasek, M. (2023). Liquid–liquid phase separation of two non-dissolving liquids—A mini review. *Processes*, *11*(4), 1145. https://doi.org/10.3390/pr11041145

Evans, F. L. (1974). Equipment design handbook for refineries and chemical plants (Vol. 2). Gulf Publishing Company.

Factory direct sales high quality anthraquinone with CAS 84-65-1. (2026). Made-in-China.com. https://mikemchemical.en.made-in-china.com/product/iTORWrNjbLUp/China-Factory-Direct-Sales-High-Quality-Anthraquinone-with-CAS-84-65-1.html

Fliege, W., & Woerz, O. (1973, August 23). [German patent on anthraquinone production] (Ger. Pat. No. 2,206,864). Badische Anilin & Soda Fabrik.

Groggins, P. H. (1931). Aluminum chloride and the Friedel-Crafts reaction. Industrial & Engineering Chemistry, 23(2), 152–160.

Groggins, P. H. (1958). Unit processes in organic synthesis.

Kern, D. Q. (1965). Process heat transfer.

Kirk-Othmer encyclopedia of chemical technology. (2000). Anthraquinone. Wiley.

Lecher, H. Z., & Whitehouse, K. C. (1953, September 15). U.S. Patent No. 2,652,408. American Cyanamid Co.

Levenspiel, O. (1999). Chemical reaction engineering. Wiley India.

Matches' 275 equipment cost estimates. (2014). https://www.matche.com/equipcost/Default.html

Nfodzo, P., Dionysiou, D. D., & Choi, H. (2012). Water supply and treatment. Encyclopedia of Environmetrics, 3. https://doi.org/10.1002/9780470057339.vnn119

Noyce, D. S., & Kittle, P. A. (1967). The effect of substituents on the rate of formation of substituted anthraquinones. *The Journal of Organic Chemistry*, *32*(8), 2459–2462.

Park, H. K., Park, K. Y., & Kim, H.-J. (2014). Kinetics of gas-phase hydrolysis of aluminum chloride for alumina particles.

Perry, R. H., & Green, D. W. (1997). *Perry's chemical engineers' handbook* (7th ed.). McGraw-Hill.

Perry, R. H. (2008). Perry's chemical engineers' handbook (8th ed.). McGraw-Hill.

UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Antrakuinon dari Benzena dan Anhidrida Ftalat dengan Kapasitas 40.000 Ton/Tahun
Faizah Marsya Salsabila, Prof. Ir. Arief Budiman, MS., D.Eng., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Peters, M. S., & Timmerhaus, K. D. (1991). Plant design and economics for chemical engineers.

Powell, S. T. (1954). Water conditioning for industry (1st ed.). McGraw-Hill, Inc.

Rase, H. F. (1977). Chemical reactor design for process plants (Vol. 1). John Wiley & Sons.

Rousseau, R. W. (1987). Handbook of separation process technology. John Wiley & Sons.

Sinnott, R. K. (2002). Coulson & Richardson's chemical engineering (Vol. 2): Chemical engineering design (5th ed.).

Sinnott, R. K., & Towler, G. (2005). Chemical engineering design (4th ed., Vol. 6). Butterworth-Heinemann.

Sinnott, R. K., & Towler, G. (2019). Coulson and Richardson's chemical engineering series: Chemical engineering design (6th ed., SI ed.). Butterworth-Heinemann. https://doi.org/10.1016/B978-0-08-102599-4.09980-X

Stevenson, W. J. (2021). Operations management (14th ed., international student ed.). McGraw-Hill Education.

Svarovsky, L. (2000). *Solid-liquid separation* (4th ed.). Butterworth-Heinemann.

Towler, G. P., & Sinnott, R. (n.d.). Chemical engineering design: Principles, practice, and economics of plant and process design (2nd ed.).

Treybal, R. E. (1980). Mass-transfer operations (J. J. Carberry, J. R. Fair, M. S. Peters, W. R. Schowalter, & J. Wei, Eds.). McGraw-Hill, Inc.

U.S. Department of Commerce. (1948). FIAT report no. 1313 (Vol. 2). Field Information Agency, Technical.

Ulrich, G. D. (1984). A guide to chemical engineering process design and economics.

Vatavuk, W. M. (2002). Updating the plant cost index.

Walas, S. M. (1990). *Chemical process equipment: Selection and design*. Butterworth-Heinemann.

Walas, S. M. (2012). *Chemical process equipment: Selection and design* (3rd ed.). Butterworth-Heinemann.

Wang, Y., Wang, G., Yan, Y., Zhao, X., & Wang, Y. (2022). Acylation reaction of benzene with phthalic anhydride catalyzed by amide-AlCl3 ionic liquid analogs. *Acta Petrolei Sinica (Petroleum Processing Section)*, *38*, 292.

UNIVERSITAS
GADJAH MADA
Prarancangan Pabrik Antrakuinon dari Benzena dan Anhidrida Ftalat dengan Kapasitas 40.000 Ton/Tahun
Faizah Marsya Salsabila, Prof. Ir. Arief Budiman, MS., D.Eng., IPU., ASEAN.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Weyker, R. G., Megson, F. H., Hoffman, T., & Wiesner, G. (1960, May 31). U.S. Patent No. 2,938,913. American Cyanamid Co.

Windsor, B. (2016). Ion exchange design – Hand calculation.

Yaws, C. L. (1999). *Chemical properties handbook: Physical, thermodynamic, environmental, transport, safety, and health related properties for organic and inorganic chemicals*. McGraw-Hill.

Yokoyama, Y. (1982). Jpn. Pat. 82-31,637.