



UNIVERSITAS
GADJAH MADA

SKRIPSI PERANCANGAN DAN PENGUJIAN BEJANA SAMPEL SIEVERT-TYPE APPARATUS DENGAN
SISTEM PENDINGIN
NITROGEN CAIR

TITO ARON PALTI SIDABALOK, Robertus Dhimas Dhewangga Putra, S.T, M.Eng, Ph.D

Universitas Gadjah Mada, 2025 | Diunduh dari <http://etd.repository.ugm.ac.id/>

DAFTAR PUSTAKA

- Alok Kumar, P. M. (2022). Absorption based solid state hydrogen storage system: A review. *Sustainable Energy Technologies and Assessments* .
- American Society of Mechanical Engineers (ASME). (2020). *Pipe Flanges and Fittings (NPS 1/2 Through NPS 24) (B16.5)*. New York.
- American Society of Mechanical Engineers (ASME). (2023). *Material Properties (Boiler and Pressure Vessel Codes Section II Part D)*. New York.
- American Society of Mechanical Engineers (ASME). (2023). *Rules for Construction of Pressure vessels (Boiler and Pressure Vessel Code Section VIII Division II)*. New York.
- Arsad, A., Hannan, M. A., Al-Shetwi, A. Q., Begum, R. A., Hossain, M. J., Ker, P. J., & Mahlia, T. I. (2023). Hydrogen Electrolyser Technologies and Their Modelling for Sustainable Energy Production: A Comprehensive Review and Suggestions. *International Journal of Hydrogen Energy*.
- Bateman, J. (2024). *Earth had its hottest August in 175-year record*. Retrieved from <https://www.noaa.gov/news/earth-had-its-hottest-august-in-175-year-record>
- Beer, F. P., Johnston, Wolf, J. D., & Mazurek, D. (2020). *Mechanics of Materials*. McGraw Hill.
- Beteta, O., & Ivanova, S. (n.d.). *Cool Down with Liquid Nitrogen*. American Institution of Chemical Engineer.
- Bhandari, V. B. (2010). *Design of Machine Elements*. New Delhi: McGraw Hill.
- Broom, D. (2008). *Hydrogen Sorption Measurements on Potential Storage Materials*. European Communities.
- Broom, D., & Moretto, P. (2007). Accuracy in hydrogen sorption measurements. *Journal of Alloys and Compounds*.
- Callister, W. D. (2020). *Material Science and Engineering*. John Wiley & Sons Inc.



Cengel, Y. A., Boles, M. A., & Kanoglu, M. (2018). *Thermodynamics: An Engineering Approach (9th Edition)*. McGraw Hills.

Fukunaga, A. (2024). Hydrogen embrittlement behaviors during SSRT tests in gaseous hydrogen for cold-worked type 316 austenitic stainless steel and iron-based superalloy A286 used in hydrogen refueling station. *Engineering Failure Analysis*.

Gere, J. M. (2004). *Mechanics of Materials. Sixth Edition*. Thomson Learning, Inc.

Hydrogen Review. (2022). International Energy Agency Global.

International Association of Oil and Gas Producers. (2022). *S-619: Specification for Undired, Fusion Welded Pressure Vessel*.

Kim, N. H., Sankar, B. V., & Kumar, A. V. (2018). *Intoduction to Finite Element Analysis and Design*. John Wiley & Sons Ltd.

Lara, G. H., Momen, G., Marty, P., Neindre, B. L., & Hassouni, K. (2007). Hydrogen storage by adsorption on activated carbon: Investigation of the thermal effects during the charging process. *International Journal of Hydrogen Energy*.

Li, S. H., Lee, D. H., Zhao, Y., & Ramamurty, U. (2024). Hydrogen-induced softening and embrittlement in 316L stainless steel fabricated using laser-powder bed fusion. *Acta Materialia*.

Logan, D. L. (2023). *A First Course in the Finite Element Method*. Cengage Learning.

Mazloomi, K., & Gomes, C. (2012). Hydrogen as an energy carrier: Prospects and challenge. *Renewable and Sustainable Energy Reviews* 16 (2012) .

Nisbett, K., & Budynas, R. (2024). *Shigley's Mechanical Engineering Design*. McGraw Hill.

Paggario, R., Michl, F., Benard, P., & Poilfke, W. (2010). Cryo-adsorptive hydrogen storage on activated carbon. II: Investigation of the thermal effects during filling at cryogenic temperatures. *International Journal of Hydrogen Energy*.



Parr, H. (1953). *United States of America Patent No. US2625296A*.

Pemerintah Indonesia. 1998. *Keputusan Direktur Jenderal Minyak dan Gas Bumi No. 84.K/38/DJM/1998. Direktur Jenderal Minyak dan Gas Bumi Kementerian Energi dan Sumber Daya Mineral.* (n.d.).

Pyle, D. S., MacA, E., & Webb, C. J. (2017). A sieverts apparatus for measuring high-pressure. *International Journal of Hydrogen Energy*.

R. C Bansal, & Goyal, M. (2005). *Activated Carbon Adsorption - Roop Chand Bansal*. Taylor & Francis.

Wang, J., Melideo, D., Pardelli, P. T., & Desideri, U. (2024). Study on the influence mechanism of fin structure on the filling performance of cold adsorption hydrogen storage tank. *International Journal of Hydrogen Energy*.

Xu, Y., Zhou, Y., Li, C., Dong, S., Liu, H., Yang, W., . . . Shaw, L. L. (2024). Unraveling the Potential of Solid-State Hydrogen Storage Materials: Insights from First Principle Calculations. *Fuel*.

Zhu, H., Zhou, D., Chen, D., & Chen, H. (2024). Design of ultra-efficient and automatically temperature-variable cycle. *International Journal of Hydrogen Energy*.