



DAFTAR PUSTAKA

- Abdullah, Avin, and Azad Mohammed. 2018. *Scanning Electron Microscopy (SEM): A Review.* Băile Govora, Romania. <https://www.researchgate.net/publication/330169176>.
- Andriyah, L., L. H. Lelasari, and A. Manaf. 2017. "The Formation of Sodium Stannate from Mineral Cassiterite by the Alkaline Decomposition Process with Sodium Carbonate (Na₂CO₃).” In *IOP Conference Series: Materials Science and Engineering*, Institute of Physics Publishing. doi:10.1088/1757-899X/176/1/012037.
- ASTM International. 2009. *Standard Test Method for Vickers Indentation Hardness of Advanced Ceramics 1.* www.astm.org.,
- ASTM International. 2013. “Designation: E8/E8M – 13a Standard Test Methods for Tension Testing of Metallic Materials 1.” *American Association StateHighway and Transportation Officials Standard.* doi:10.1520/E0008_E0008M-13A.
- Baudín, Carmen. 2021. 1–3 Encyclopedia of Materials: Technical Ceramics and Glasses *Thermal Shock Behavior of Ceramics: Fundamentals and Thermal Shock Resistance Parameters.* Elsevier. doi:10.1016/B978-0-12-803581-8.12117-4.
- Britton, T. B., F. P.E. Dunne, and A. J. Wilkinson. 2015. “On the Mechanistic Basis of Deformation at the Microscale in Hexagonal Close-Packed Metals.” *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences* 471(2178). doi:10.1098/rspa.2014.0881.
- Bunaciu, Andrei A., Elena gabriela Udriștioiu, and Hassan Y. Aboul-Enein. 2015. “X-Ray Diffraction: Instrumentation and Applications.” *Critical Reviews in Analytical Chemistry* 45(4): 289–99. doi:10.1080/10408347.2014.949616.
- Chatterjee, Arya, R. Mitra, A. K. Chakraborty, C. Rotti, and K. K. Ray. 2013. “Thermal Fatigue Damage of Cu-Cr-Zr Alloys.” *Journal of Nuclear Materials* 443(1–3): 8–16. doi:10.1016/j.jnucmat.2013.06.046.
- Cheadle, Ba, Ce Ells, Ef Ibrahim, Ra Holt, Ce Coleman, RW Gilbert, Do Northwood, WJ Langford, and RR Hosbous. 1974. *Atomic Energy of Canada Limited The Physical Metallurgy of Zirconium Alloys Series of Lectures Prepared by Atomic Energy of Canada Limited.*, Chalk River Laboratories Chalk River, Ontario.
- Coleman, C E. 2022. *The Metallurgy of Zirconium.* Volume 1/3. VIENNA: International Atomic Energy Agency.
- Desiati, Resetiana D., Agus S. Wismogroho, Eni Sugiarti, Marga A.J. Mulya, Wahyu B. Widayatno, Didik Aryanto, Abdul Basyir, et al. 2024. “The Corrosion and Mechanical Behavior of Zirconium Alloy for Alkali Fusion



- Process at High Temperature.” *JOM*. doi:10.1007/s11837-024-06451-3.
- Heikkinen, Samuli. 2010. Doctoral Thesis *Thermally Induced Ultra High Cycle Fatigue of Copper Alloys of the High Gradient Accelerating Structures*.
- Le Hong, Thai, Jean Christophe Brachet, Jérôme Crépin, and Matthieu Le Saux. 2021. “Combined Effects of Temperature and of High Hydrogen and Oxygen Contents on the Mechanical Behavior of a Zirconium Alloy upon Cooling from the BZr Phase Temperature Range.” *Journal of Nuclear Materials* 554. doi:10.1016/j.jnucmat.2021.153069.
- Hu, Jing, Weitong Lin, Qingyang Lv, Changyuan Gao, and Jun Tan. 2023. “Oxide Formation Mechanism of a Corrosion-Resistant CZ1 Zirconium Alloy.” *Journal of Materials Science and Technology* 147: 6–15. doi:10.1016/j.jmst.2022.12.002.
- Juntavee, Niwut, and Chollada Dangsuwan. 2018. “Role of Coefficient of Thermal Expansion on Bond Strength of Ceramic Veneered Yttrium-Stabilized Zirconia.” *Journal of Clinical and Experimental Dentistry* 10(3): e279–86. doi:10.4317/jced.54605.
- Mosbacher, Mike, Marius Hilzenthaler, Mathias Galetz, and Uwe Glatzel. 2022. “Oxygen Diffusion Hardened Zirconium Alloy ZrNb7 – Tribological Properties Derived from Calo Wear and Wheel on Flat Experiments.” *Tribology International* 165. doi:10.1016/j.triboint.2021.107304.
- MW Barsoum. 2003. 7 Institute of Physics *Fundamental of Ceramics*. Department of Materials Engineering, Drexel University, USA: Institute of Physics Publishing Bristol and Philadelphia.
- Nikitina, E. V. 2016. “Corrosion-Electrochemical Behavior of Zirconium in Molten Alkali Metal Carbonates.” *Russian Metallurgy (Metally)* 2016(8): 715–17. doi:10.1134/S0036029516020099.
- Nordin, H M, M Lundgren, A J Phillion, M D Wright, A Douchant, Canadian Nuclear Laboratories, Chalk River Laboratories, and Chalk River. 2015. “Fatigue Crack Initiation Tests on Zr-2.5nb in a Heavy Water Reactor Environment.” *17th International Conference on Environmental Degradation of Materials in Nuclear Power Systems – Water Reactors*: 1–19.
- Nunes, Rafael, J H Adams, John C Bean, Bell Laboratories, • B J Beaudry, • David, and F Berry. 1992. *METAL HANDBOOK Vol 2*. Vol 2. eds. Rafael Nunes UFRGS, Inc. J.H. Adams Eagle-Picher Industries, and et al. Ohio, USA: ASM International - The materials Information Company.
- Park, Kwangheon, and D R Olander. 1991. 138 J. Electrochern. Soc *Oxygen Diffusion in Single-Crystal Tetragonal Zirconia*. Messick.
- Rauta, P. R., P. Manivasakan, V. Rajendran, B. B. Sahu, B. K. Panda, and P. Mohapatra. 2012. “Phase Transformation of ZrO₂ Nanoparticles Produced from Zircon.” *Phase Transitions* 85(1–2): 13–26.



doi:10.1080/01411594.2011.619698.

- Rivai, Abu Khalid, Bernandus Bandriyana, Annette Heinzel, and Dan Fabian Lang. 2012. *Kompatibilitas Paduan Zirkonium Pada Cairan Logam Berat Lead-Bismuth Eutectic.*
- Robertson, J A L. 1981. 100 Journal of Nuclear Materials *Zirconium—an International Nuclear Material.* IOX-I IX North-Holland Publishing Company.
- Rodchenkov, B. S., and A. N. Semenov. 2005. "High Temperature Mechanical Behavior of Zr-2.5% Nb Alloy." *Nuclear Engineering and Design* 235(17–19): 2009–18. doi:10.1016/j.nucengdes.2005.05.032.
- Russell, R B. 1954. *Coefficients of Thermal Expansion for Zirconium.*
- Sellers, Robert S., Mark H. Anderson, Kumar Sridharan, and Todd R. Allen. 2014. "Failure Analysis of 316L Stainless Steel Crucible by Molten Fluoride Salt Interaction with Clay Bonded Silicon Carbide." *Engineering Failure Analysis* 42: 38–44. doi:10.1016/j.engfailanal.2014.03.007.
- Suharyanto, Ariyo, Eko Sulistiyono, and F Firdiyono. 2014. "Pelarutan Terak Timah Bangka Menggunakan Larutan NaOH." : 28–39.
- Suwarno, and Muhammad Nashir. 2020. "Effect of Sulfuric Acid Concentration on the Corrosion Rate of Astm A213-T12 Steel." In *Key Engineering Materials*, Trans Tech Publications Ltd, 213–17. doi:10.4028/www.scientific.net/KEM.867.213.
- Tarng, Wernhuar, Yu Jun Lin, and Kuo Liang Ou. 2021. "A Virtual Experiment for Learning the Principle of Daniell Cell Based on Augmented Reality." *Applied Sciences (Switzerland)* 11(2): 1–24. doi:10.3390/app11020762.
- Tsutsumi, Yusuke, Izumi Muto, Shigeyuki Nakano, Junichi Tsukada, Tomoyo Manaka, Peng Chen, Maki Ashida, et al. 2020. "Effect of Impurity Elements on Localized Corrosion of Zirconium in Chloride Containing Environment." *Journal of The Electrochemical Society* 167(14): 141507. doi:10.1149/1945-7111/abc5d8.
- Vermaak, Natasha, Guillaume Parry, Rafael Estevez, and Yves Bréchet. 2013. "New Insight into Crack Formation during Corrosion of Zirconium-Based Metal-Oxide Systems." *Acta Materialia* 61(12): 4374–83. doi:10.1016/j.actamat.2013.04.009.
- William D. Callister, JR, and David G. Rethwisch. 2018. *Material Science And Engineering - Tenth Edition.* Hachette Livre - Département Pratique.
- Withmarsh, C.L. 1962. "Review of Zircaloy-2 and Zircaloy-4 Properties Relevant to N.S. Savannah Reactor Design." (No. ORNL-3281). *Oak Ridge National Lab., Tenn..* 4500: 70.
- Wulpi, Donald J. 1999. *Understanding How Components Fail - Second Edition.*



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Xiao, Renjie, Guoqing Xiao, Biao Huang, Junhao Feng, and Qionghui Wang. 2016. “Corrosion Failure Cause Analysis and Evaluation of Corrosion Inhibitors of Ma Huining Oil Pipeline.” *Engineering Failure Analysis* 68: 113–21. doi:10.1016/j.engfailanal.2016.05.029.

Yang, Guohua, Yuanbo Gou, Xinshi Liu, Xiaoming Zhang, and Tuo Zhang. 2018. “Failure Analysis of the Corroded Water Wall Tube in a 50MW Thermal Power Plant.” *High Temperature Materials and Processes* 37(9–10): 995–99. doi:10.1515/htmp-2017-0133.

Yau, T.-L., and V.E. Annamalai. 2016. “Corrosion of Zirconium and Its Alloys.” In *Reference Module in Materials Science and Materials Engineering*, Elsevier. doi:10.1016/b978-0-12-803581-8.01641-6.

Zhang, Yuanbo, Benlai Han, Zijian Su, Xijun Chen, Manman Lu, Jicheng Liu, and Tao Jiang. 2019. “Effect of Quartz on the Preparation of Sodium Stannate from Cassiterite Concentrates by Soda Roasting Process.” *Minerals* 9(10). doi:10.3390/min9100605.

Zobaer Shah, Quazi Md, Mohammad Asaduzzaman Chowdhury, and Md Arefin Kowser. 2022. “The Aspect of the Corrosion Pitting with Fretting Fatigue on Aluminum Alloy: An Aerospace Structural Failure or a Nuclear Safety Phenomenon.” *Results in Engineering* 15. doi:10.1016/j.rineng.2022.100483.