

DAFTAR PUSTAKA

- Azeem, M., Noman, M. T., Petru, M., Shahid, M., Khan, M. Q., & Wiener, J. (2022). Surface wettability of vertical harps for fog collection. *Surfaces and Interfaces*, 30. <https://doi.org/10.1016/j.surfin.2022.101842>
- Bergman, T. L. ., & Levine, A. S. . (2019). *Fundamentals of heat and mass transfer*. John Wiley & Sons, Inc.
- Bum-Jin, C., Sin, K., Min Chan, K., & Ahmadinejad, M. (2004). Experimental comparison of film-wise and drop-wise condensations of steam on vertical flat plates with the presence of air. *International Communications in Heat and Mass Transfer*, 31(8), 1067–1074. <https://doi.org/https://doi.org/10.1016/j.icheatmasstransfer.2004.08.004>
- Çengel, Y. A. ., & Ghajar, A. J. . (2011). *Heat and mass transfer : fundamentals & applications*. McGraw-Hill.
- Chen, Y. F. (2011). Influence of Surface Wettability on Dropwise Condensation Heat Transfer. *Machinery, Materials Science and Engineering Applications, MMSE2011, Advanced Materials Research*, 228, 869–873. <https://doi.org/10.4028/www.scientific.net/AMR.228-229.869>
- Cheng, Z. J., Qu, J. P., Liu, Y. J., Wu, W. J., He, P. C., Li, S., Zhao, J., & Mo, J. L. (2025). Enhancing atmospheric water harvesting on hydrophilic-superhydrophobic hybrid surfaces through wettability gradient and synergistic diversion channel. *Materials Today Physics*, 52. <https://doi.org/10.1016/j.mtphys.2025.101691>
- Dodangeh, A. H., & Heyhat, M. M. (2026). Active fog harvesting: Performance enhancement via mechanical vibration. *Results in Engineering*, 29, 108617. <https://doi.org/https://doi.org/10.1016/j.rineng.2025.108617>
- Dong, X., & Chen, W. (2022). Numerical analysis of wave effect on steam–air condensation on a vertical surface. *Annals of Nuclear Energy*, 168, 108872. <https://doi.org/https://doi.org/10.1016/j.anucene.2021.108872>
- El Fil, B., Kini, G., & Garimella, S. (2020). A review of dropwise condensation: Theory, modeling, experiments, and applications. Dalam *International Journal of Heat and Mass Transfer* (Vol. 160). Elsevier Ltd. <https://doi.org/10.1016/j.ijheatmasstransfer.2020.120172>
- ELLIOTT, B. J. (2000). 2 - Basic applied mathematics. Dalam B. J. ELLIOTT (Ed.), *Cable Engineering for Local Area Networks* (hlm. 4–12). Woodhead Publishing. <https://doi.org/https://doi.org/10.1533/9781855738898.4>
- Faghri, A., & Zhang, Y. (2006). 8 - CONDENSATION. Dalam A. Faghri & Y. Zhang (Ed.), *Transport Phenomena in Multiphase Systems* (hlm. 581–677).

- Academic Press. <https://doi.org/https://doi.org/10.1016/B978-0-12-370610-2.50013-1>
- He, S., Xia, Y., & Guo, Z. (2026). Recent advances of MOFs in sorption-based atmospheric water harvesting. *Materials Today Physics*, 60, 101986. <https://doi.org/10.1016/j.mtphys.2025.101986>
- Hou, Y., Gan, Z., Li, H., Zang, H., Zheng, H., Lei, H., Liu, M., Yan, C., & Wu, Y. (2024). Laser-textured biomimetic copper leaf with structural-wettability dual gradient for efficient fog harvesting. *Optics and Laser Technology*, 170. <https://doi.org/10.1016/j.optlastec.2023.110154>
- Hu, X., Yi, Q., Kong, X., Wang, J., Hu, C. :, Yi, X. :, Kong, Q. :, & Wang, X. ; (2021). *A Review of Research on Dropwise Condensation Heat Transfer*. <https://doi.org/10.3390/app>
- Jarimi, H., Powell, R., & Riffat, S. (2020). Review of sustainable methods for atmospheric water harvesting. Dalam *International Journal of Low-Carbon Technologies* (Vol. 15, Nomor 2, hlm. 253–276). Oxford University Press. <https://doi.org/10.1093/ijlct/ctz072>
- Jouhara, H., Reay, D., McGlen, R., Kew, P., & McDonough, J. (2024). Chapter 4 - Heat transfer and fluid flow theory. Dalam H. Jouhara, D. Reay, R. McGlen, P. Kew, & J. McDonough (Ed.), *Heat Pipes (Seventh Edition)* (Seventh Edition, hlm. 127–207). Butterworth-Heinemann. <https://doi.org/https://doi.org/10.1016/B978-0-12-823464-8.00011-5>
- Jurak, M., Golabek, M., Holysz, L., & Chibowski, E. (2015). Properties of Langmuir and solid supported lipid films with sphingomyelin. *Advances in Colloid and Interface Science*, 222, 385–397. <https://doi.org/https://doi.org/10.1016/j.cis.2014.03.008>
- Khan, S. A., Tahir, F., Baloch, A. A. B., & Koc, M. (2019). Review of micro-nanoscale surface coatings application for sustaining dropwise condensation. Dalam *Coatings* (Vol. 9, Nomor 2). MDPI AG. <https://doi.org/10.3390/COATINGS9020117>
- Liu, L., Xie, Z., Wen, L., Pi, P., Qian, Y., Wang, S., & Wen, X. (2024). Efficient collection and directional transport of condensate on superhydrophilic-hydrophobic surfaces with bioinspired hierarchical wedge-shaped channels. *Surfaces and Interfaces*, 55. <https://doi.org/10.1016/j.surfin.2024.105473>
- Lu, W., Shang, Y., Liu, Y., & Li, D. (2025). Enhancing condensation droplets removal on tube through periodic ultrasonic vibration. *International Journal of Refrigeration*, 170, 412–422. <https://doi.org/10.1016/j.ijrefrig.2024.12.012>

- Mishra, B. K., Kumar, P., Saraswat, C., Chakraborty, S., & Gautam, A. (2021). Water security in a changing environment: Concept, challenges and solutions. *Water (Switzerland)*, 13(4). <https://doi.org/10.3390/w13040490>
- Moradi, M., Chini, S. F., & Rahimian, M. H. (2020a). Vibration-enhanced condensation heat transfer on superhydrophobic surfaces: An experimental study. *AIP Advances*, 10(9). <https://doi.org/10.1063/5.0020139>
- Moradi, M., Chini, S. F., & Rahimian, M. H. (2020b). Vibration-enhanced condensation heat transfer on superhydrophobic surfaces: An experimental study. *AIP Advances*, 10(9). <https://doi.org/10.1063/5.0020139>
- Oh, I., Cha, H., Chen, J., Chavan, S., Kong, H., Miljkovic, N., & Hu, Y. (2020). Enhanced Condensation on Liquid-Infused Nanoporous Surfaces by Vibration-Assisted Droplet Sweeping. *ACS Nano*, 14(10), 13367–13379. <https://doi.org/10.1021/acsnano.0c05223>
- Paine, R., Beards, C., Tucker, P., & Bacon, D. H. (1994). 1 - Mechanical engineering principles. Dalam E. H. Smith (Ed.), *Mechanical Engineer's Reference Book (Twelfth Edition)* (Twelfth Edition, hlm. 1-1-1–48). Butterworth-Heinemann. <https://doi.org/https://doi.org/10.1016/B978-0-7506-1195-4.50005-1>
- Philander, E., & Saito, T. (2025a). Fog harvesting behavior on alternating vertical hydrophobic-hydrophilic stripes. *Results in Engineering*, 26, 105056. <https://doi.org/https://doi.org/10.1016/j.rineng.2025.105056>
- Philander, E., & Saito, T. (2025b). Fog harvesting behavior on alternating vertical hydrophobic-hydrophilic stripes. *Results in Engineering*, 26. <https://doi.org/10.1016/j.rineng.2025.105056>
- Pradhan, R., & Grewal, H. S. (2026). Sustainable fog water harvesting through facile surface texturing. *Desalination*, 619. <https://doi.org/10.1016/j.desal.2025.119535>
- Qi, B., Yang, X., & Wang, X. (2022). Ultraslippery/hydrophilic patterned surfaces for efficient fog harvest. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 640, 128398. <https://doi.org/https://doi.org/10.1016/j.colsurfa.2022.128398>
- Rajpu, R. K. . (2006). *Heat and Mass Transfer : in SI Units, (A textbok for the students preparing for B.E., B. Tech., B. SC. Engg., A.M.I.E., U.P.S.C. (Engg. Services) and GATE Examinations)* (5 ed.). S. Chand & company.
- Rezaee, B., Mahlouji Taheri, M., Pakzad, H., Fakhri, M., Moosavi, A., & Aryanpour, M. (2023). Enhancement of Dropwise Condensation Heat Transfer through a Sprayable Superhydrophobic Coating. *Langmuir*, 39(23), 8354–8366. <https://doi.org/10.1021/acs.langmuir.3c00947>

- Rose, J. W. (2002). Dropwise condensation theory and experiment: A review. *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy*, 216(2), 115 – 128. <https://doi.org/10.1243/09576500260049034>
- Rowe, W. B. . (2014). *Principles of modern grinding technology*. William Andrew.
- Sadek, S., Li, C., Ahmed, S. A. S., & Deng, S. (2026). Performance investigation on an improved sorption-based atmospheric water harvesting system. *Applied Thermal Engineering*, 283. <https://doi.org/10.1016/j.applthermaleng.2025.128933>
- Shahzadi, S., Nadeem, N., Javid, A., Nawab, Y., & Zubair, U. (2024). Strategic insights into realizing superhydrophobic surfaces on cellulosic substrates through conventional and sustainable technologies. *Surfaces and Interfaces*, 53, 105034. <https://doi.org/https://doi.org/10.1016/j.surfin.2024.105034>
- Shuvo, I. I., Díaz-Marín, C. D., Christen, M., Lherbette, M., Liem, C., & Boriskina, S. V. (2025). High-efficiency atmospheric water harvesting enabled by ultrasonic extraction. *Nature Communications*, 16(1). <https://doi.org/10.1038/s41467-025-65586-2>
- Suh, Y., Lee, J., Simadiris, P., Yan, X., Sett, S., Li, L., Rabbi, K. F., Miljkovic, N., & Won, Y. (2021). A Deep Learning Perspective on Dropwise Condensation. *Advanced Science*, 8(22). <https://doi.org/10.1002/advs.202101794>
- Thompson, A. R. ., Moran, J. M. ., & Swenson, G. W. . (2017). *Interferometry and synthesis in radio astronomy*. Springer.
- WHO. (2023, September 13). *Drinking-Water*. <https://www.who.int/news-room/fact-sheets/detail/drinking-water>
- Yang, B. (2001). THEORY OF VIBRATION | Fundamentals. Dalam S. Braun (Ed.), *Encyclopedia of Vibration* (hlm. 1290–1299). Elsevier. <https://doi.org/https://doi.org/10.1006/rwvb.2001.0112>
- Yildirim-Yalcin, M., Tornuk, F., & Toker, O. S. (2022). Recent advances in the improvement of carboxymethyl cellulose-based edible films. Dalam *Trends in Food Science and Technology* (Vol. 129, hlm. 179–193). Elsevier Ltd. <https://doi.org/10.1016/j.tifs.2022.09.022>
- Yu, Z., Zhang, H., Huang, J., Li, S., Zhang, S., Cheng, Y., Mao, J., Dong, X., Gao, S., Wang, S., Chen, Z., Jiang, Y., & Lai, Y. (2021). Namib desert beetle inspired special patterned fabric with programmable and gradient wettability for efficient fog harvesting. *Journal of Materials Science and Technology*, 61, 85–92. <https://doi.org/10.1016/j.jmst.2020.05.054>

Zarei, M., Dabir, B., Esmailian, N., & Warsinger, D. M. (2025). Biomimetic bumpy and eco-friendly slippery surfaces for enhanced dew and fog water harvesting. *Journal of Water Process Engineering*, 70, 106950. <https://doi.org/https://doi.org/10.1016/j.jwpe.2025.106950>