

DAFTAR PUSTAKA

- Abe, K. (1991). Tsunami reflected waves from the coasts near the sources. *Journal of Physics of the Earth*, 39(2):477–488.
- Adytia, D. (2017). *Tsunami simulation in Indonesia's areas based on shallow water equations and variational Boussinesq model using finite element method*. PhD thesis, Institut Teknologi Bandung.
- Alnasser, N., Alabssi, R., Faran, B., Alessa, L., and Nagy, N. (2024). The implementation of ray tracing algorithm with openmp parallelization. *Journal of Computer and Communications*, 12:120–130.
- Cheng, S. and Liu, H. (2023). General Review of the Worldwide Tsunami Research. *Journal of Marine Science and Application*, 22(1):14–24.
- Dean, R. G. and Dalrymple, R. A. (1991). *Water Wave Mechanics for Engineers and Scientists*. World Scientific Publishing Company.
- Di Mauro, M., Megawati, K., Cedillos, V., and Tucker, B. (2013). Tsunami risk reduction for densely populated southeast asian cities: analysis of vehicular and pedestrian evacuation for the city of padang, indonesia, and assessment of interventions. *Natural Hazards*, 68(2):373–404.
- Ferreira, M. A., Oliveira, C. S., and Francisco, R. (2024). Tsunami risk mitigation: the role of evacuation routes, preparedness and urban planning. *Natural Hazards*.
- Fritz, H., Kongko, W., Moore, A., McAdoo, B. G., Goff, J., Harbitz, C., Uslu, B., Kalligeris, N., Suteja, D., Kalsum, K., Titov, V., and Gusman, A. (2007). Extreme runup from the 17 july 2006 java tsunami. *Geophysical Research Letters*, 34:L12602.
- Fuji, R. and Hinata, H. (2017). Temporal variability of tsunami arrival detection distance revealed by virtual tsunami observation experiments using numerical simulation and 1-month hf radar observation. *Journal of Oceanography*, 73(6):725–741.
- Guinot, V. and Rousseau, A. (2024). Large courant–friedrichs–lewy explicit scheme for one-dimensional hyperbolic conservation laws. *International Journal for Numerical Methods in Fluids*, 96(11):1760–1794.

- Gusman, A. R., Satake, K., Shinohara, M., Sakai, S., and Tanioka, Y. (2017). Fault Slip Distribution of the 2016 Fukushima Earthquake Estimated from Tsunami Waveforms. *Pure and Applied Geophysics*, 174(8):2925–2943.
- Hairer, E., Norsett, S., and Wanner, G. (1993). *Solving Ordinary Differential Equations I: Nonstiff Problems*, volume 8. Springer.
- Hanifa, N., Meilano, I., Sagiya, T., Kimata, F., and Abidin, H. Z. (2009). Numerical modeling of the 2006 java tsunami earthquake. *Advances in Geosciences, Volume 13: Solid Earth (SE)*, 13.
- Horrillo, J., Knight, W., and Kowalik, Z. (2012). Tsunami propagation over the north pacific: Dispersive and nondispersive models. *Science of Tsunami Hazards*, 31:154–177.
- Hébert, H., Burg, P.-E., Binet, R., Lavigne, F., Allgeyer, S., and Schindelé, F. (2012). The 2006 july 17 java (indonesia) tsunami from satellite imagery and numerical modelling: a single or complex source? *Geophysical Journal International*, 191(3):1255–1271.
- Jian-Zhong, Z., Chen, S.-J., and Xu, C.-W. (2004). A method of shortest path raytracing with dynamic networks. *Chinese Journal of Geophysics*, 47(5):1013–1018.
- Kang, X., Wang, S., Zeng, J., and Zhao, Y. (2022). Forward Euler method for ordinary differential equations. In Yin, H.-M., Chen, K., Meštrović, R., Oliveira, T. A., and Lin, N., editors, *International Conference on Statistics, Applied Mathematics, and Computing Science (CSAMCS 2021)*, volume 12163, page 121632U. International Society for Optics and Photonics, SPIE.
- Kolukula, S. S., Murty, P. L. N., Kumar, T. S., Ramarao, E. P., and M. V, R. M. (2025). Tsunami modelling over global oceans. *Royal Society Open Science*, 12(1):241128.
- Kristina, W. (2014). *Effective Coastal Boundary Conditions for Tsunami Simulations*. Phd thesis - research ut, graduation ut, University of Twente, Netherlands.
- Köhler, A., Weidle, C., and Maupin, V. (2011). On the effect of topography on surface wave propagation in the ambient noise frequency range. *Journal of Seismology*, 16.

- Latifah, A. L., Hariyanto, H. L., and Ismanto, R. D. (2024). Effect of bathymetry data on tsunami wave ray tracing in the western Banten sea. *Continental Shelf Research*, 277:105247.
- Lavigne, F., Gomez, C., Giffo, M., Wassmer, P., Hoebreck, C., Mardiatno, D., Priyono, J., and Paris, R. (2007). Field observations of the 17 July 2006 tsunami in java. *Natural Hazards and Earth System Sciences*, 7(1):177–183.
- Liyanage, L. and Rathnasooriya, A. (2024). Tsunami hazards: Assessment of exposure of sri lanka – case study in potuvil, kalmunai and nilaveli. In *Civil Engineering Research Symposium 2024*, pages 31–32.
- Lu, X. and Lin, H. (2022). Quantum ray tracing with simulation. *SPIN*, 12(04):2250030.
- Maulidina, K., Manessa, M. D. M., and Kurniawan, R. (2024). Accuracy test of GEBCO bathymetry data in the Flores Sea. In Blanco, A., Rimba, A. B., Roelfsema, C. M., and Arjasakusuma, S., editors, *Eighth Geoinformation Science Symposium 2023: Geoinformation Science for Sustainable Planet*, volume 12977, page 129770Q. International Society for Optics and Photonics, SPIE.
- Murtianto, H. (2016). Potensi kerusakan gempa bumi akibat pergerakan patahan sumatera di sumatera barat dan sekitarnya. *Jurnal Geografi Gea*, 10.
- Mustafida, R. P., Veronica, N., Karima, A. Q., de Silva Nusantara, C. A., and Windupranata, W. (2022). Identification of the ioc-unesco tsunami ready indicator to improve coastal community preparedness for tsunami disaster in batukaras village, pangandaran regency, indonesia. In *2022 IEEE Asia-Pacific Conference on Geoscience, Electronics and Remote Sensing Technology (AGERS)*, pages 41–47.
- Nijman, V. (2021). Tourism Developments Increase Tsunami Disaster Risk in Pangandaran, West Java, Indonesia. *International Journal of Disaster Risk Science*, 12(5):764–769.
- Nurwatik, N., Bioresita, F., and Setiawan, D. (2024). Penentuan lokasi titik evakuasi sementara bencana tsunami menggunakan metode network analyst (studi kasus: Pesisir selatan kabupaten pangandaran). *GEOID*, 17(1):53–61.

- Pathan, A. I., Patel, D., Samal, D. R., Prieto, C., and Eslamian, S. (2023). Chapter 24 - river bathymetry acquisition techniques and its utility for river hydrodynamic modeling. In Eslamian, S. and Eslamian, F., editors, *Handbook of Hydroinformatics*, pages 339–351. Elsevier.
- Pattiaratchi, C. (2005). Tsunamis—their causes and effects. *Environment Magazine (Central Environmental Authority of Sri Lanka)*, pages 11–16.
- Priadi, R., Yunus, D., Yonanda, B., and Margiono, R. (2020). Analysis of tsunami inundation due in pangandaran tsunami earthquake in south java area based on finite faults solutions model. *Jurnal Penelitian Fisika dan Aplikasinya (JPFA)*, 10:114.
- Raoult, C., Benoit, M., and Yates, M. L. (2018). Development of a nonlinear and dispersive numerical model of wave propagation in the coastal zone. *Revue Paralia*, 11:n01.1–n01.14.
- Rasyif, T. M., Syamsidik, Al'ala, M., and Fahmi, M. (2016). Numerical simulation of the impacts of reflected tsunami waves on Pulo Raya Island during the 2004 Indian Ocean tsunami. *Journal of Coastal Conservation*, 20(6):489–499.
- Rikarda, R. D. E., Wiyono, R. U. A., Halik, G., Hidayah, E., and Pratama, M. B. (2020). Tsunami simulation in puger beach considering the combination of earthquake source in south java. *AIP Conference Proceedings*, 2278(1):020037.
- Sandanbata, O., Watada, S., Satake, K., Fukao, Y., Sugioka, H., Ito, A., and Shiobara, H. (2018). Ray tracing for dispersive tsunamis and source amplitude estimation based on green's law: Application to the 2015 volcanic tsunami earthquake near torishima, south of japan. *Pure and Applied Geophysics*, 175.
- Satake, K. (1988). Effects of bathymetry on tsunami propagation: Application of ray tracing to tsunamis. *pure and applied geophysics*, 126(1):27–36.
- Simarro, G. (2024). Influence of bed variations on linear wave propagation beyond the mild slope condition. *Journal of Marine Science and Engineering*, 12(9).
- Syafitri, Y., Bahtiar, B., and Meiliyadi, L. A. D. (2020). Analisis pergeseran lempeng bumi yang meningkatkan potensi terjadinya gempa bumi di pulau lombok. *KONSTAN - JURNAL FISIKA DAN PENDIDIKAN FISIKA*, 4:139–146.

- Torsvik, T., Abdalazeez, A., Dutykh, D., Denissenko, P., and Didenkulova, I. (2019). *Dispersive and Nondispersive Nonlinear Long Wave Transformations: Numerical and Experimental Results*, pages 41–60. Springer International Publishing, Cham.
- Villholth, K. G. and Neupane, B. (2011). Tsunamis as long-term hazards to coastal groundwater resources and associated water supplies. In Mokhtari, M., editor, *Tsunami*, chapter 5. IntechOpen, Rijeka.
- Widiyantoro, S., Gunawan, E., Muhari, A., Rawlinson, N., Supendi, P., and Ash Shiddiqi, H. (2020). Implications for megathrust earthquakes and tsunamis from seismic gaps south of java indonesia. *Scientific Reports*, 10.
- Windupranata, W., Hanifa, N., Nusantara, C. A. D. S., and Aristawati, G. (2019). Analysis of tsunami hazard in the southern coast of west java province -indonesia. In *IOP Conference Series: Earth and Environmental Science*, volume 618.
- Wu, S., Sun, Y., Li, Q., Wang, J., Wang, D., Sun, Q., Chen, C., and Xie, Y. (2024). *South China Sea Earthquake and Tsunami Disaster*, pages 269–299. Springer Nature Singapore, Singapore.
- Wunsch, C. (2024). A book of waves—stefan helmreich (durham, nc, usa: Duke univ. press, 2023, 411 pp.). *IEEE Technology and Society Magazine*, 43(2):33–35.
- Yuan, T. (2024). Reflection and refraction of light. *Optica Open: Physical Optics*, pages 9–10.
- Yudhicara, Athanasius Cipta, Imun Maemunah, Arianne Pingkan Lewu, and Fadlyanto Nurfalalah (2023). *Katalog Tsunami Indonesia Tahun 416 - 2021*. Badan Geologi, Kementerian Energi dan Sumber Daya Mineral, Jl. Diponegoro No. 57 Bandung 40122, 2023 edition.
- Yusdian, M., Eko Prasetyo, R., Supriyadi, A., and Prihanto, Y. (2023). Tsunami disaster modeling for non-military defense in pangandaran regency using geographic information systems. *International Journal of Remote Sensing and Earth Sciences (IJReSES)*, pages 45–57.
- Zhang, D. J., Zhan, J., Wang, C. X., and Zhou, G. Q. (2020). Shallow bathymetry estimation based on landsat 8 remotely sensed dataat bohai sea. *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, XLII-3/W10:941–943.