



## **DAFTAR PUSTAKA**

- Sayer, M., Bektaş, N. B., Demir, E., & Çallioğlu, H. (2012). The effect of temperatures on hybrid composite laminates under impact loading. *Composites Part B: Engineering*, 43(5), 2152–2160. <https://doi.org/10.1016/j.compositesb.2012.02.037>
- Buragohain, M. K. (2017). *Composite Structures Design, Mechanics, Analysis, Manufacturing, and Testing*. Taylor & Francis Group, LLC.
- STRONG, A. B. (2008). *Fundamentals of Composites Manufacturing: Materials, methods, and applications*. Society of Manufacturing Engineers.
- Jang, B.-W., & Kim, C.-G. (2017). Real-time detection of low-velocity impact-induced delamination onset in composite laminates for efficient management of Structural Health. *Composites Part B: Engineering*, 123, 124–135. <https://doi.org/10.1016/j.compositesb.2017.05.019>
- Egbo, M. K. (2021). A fundamental review on composite materials and some of their applications in biomedical engineering. *Journal of King Saud University - Engineering Sciences*, 33(8), 557–568. <https://doi.org/10.1016/j.jksues.2020.07.007>
- Callister, W. D. (2008). *Fundamentals of Materials Science and Engineering: An integrated approach, international*. John Wiley & Sons.
- Mazumdar, S. K. (2002). *Composites manufacturing: Materials, product, and Process Engineering*. CRC Press.
- Hu, Y., Liu, C., Zhang, J., Ding, G., & Wu, Q. (2015). Research on carbon fiber-reinforced plastic bumper beam subjected to low-velocity frontal impact. *Advances in Mechanical Engineering*, 7(6), 168781401558945. <https://doi.org/10.1177/1687814015589458>
- Liu, Q. et al. (2017) “Industrial polymer matrix composites and fiber-glass-reinforced plastics,” *Composite Materials Engineering, Volume 2*, pp. 165–304. Available at: [https://doi.org/10.1007/978-981-10-5690-1\\_2](https://doi.org/10.1007/978-981-10-5690-1_2).
- McCracken, A. and Sadeghian, P. (2018) “Partial-composite behavior of sandwich beams composed of fiberglass facesheets and woven fabric core,” *Thin-Walled Structures*, 131, pp. 805–815. Available at: <https://doi.org/10.1016/j.tws.2018.08.003>.
- Tawfek, A.M. et al. (2023a) ‘Influence of fiber orientation on the mechanical responses of engineering cementitious composite (ECC) under various loading conditions’, *Journal of Building Engineering*, 63, p. 105518. doi:10.1016/j.jobe.2022.105518.



Dress, G.A., Woldemariam, M.H. and Redda, D.T. (2021) ‘Influence of fiber orientation on impact resistance behavior of woven sisal fiber reinforced polyester composite’, *Advances in Materials Science and Engineering*, 2021, pp. 1–11. doi:10.1155/2021/6669600.

Liu, L. et al. (2021) ‘Low velocity impact behavior and simulation of parametric effect analysis for UHMWPE/LLDPE thermoplastic composite laminates’, *Composite Structures*, 258, p. 113180. doi:10.1016/j.compstruct.2020.113180.

Elanchezhian, C., Ramnath, B.V. and Hemalatha, J. (2014) ‘Mechanical behaviour of glass and carbon fibre reinforced composites at varying strain rates and temperatures’, *Procedia Materials Science*, 6, pp. 1405–1418. doi:10.1016/j.mspro.2014.07.120.

Kim, E.-H. et al. (2013) ‘Composite damage model based on continuum damage mechanics and low velocity impact analysis of composite plates’, *Composite Structures*, 95, pp. 123–134. doi:10.1016/j.compstruct.2012.07.002.

Singh, T.J. and Samanta, S. (2015) ‘Characterization of kevlar fiber and its composites: A Review’, *Materials Today: Proceedings*, 2(4–5), pp. 1381–1387. doi:10.1016/j.matpr.2015.07.057.

Kunwar, S. et al. (2017) *Study on Impact behavior of Hybrid Composite of Kevlar and Carbon Fiber with Analytical Methods using Matlab and Abaqus* [Preprint].

Schirmaier, F.J. et al. (2016a) ‘Characterisation of the draping behaviour of unidirectional non-crimp fabrics (UD-NCF)’, *Composites Part A: Applied Science and Manufacturing*, 80, pp. 28–38. doi:10.1016/j.compositesa.2015.10.004.

Moaveni, S. (2015) *Finite Element Analysis: Theory and application with Ansys*. Essex ; Boston ; Columbus etc.: Pearson Education.

Hassoon, O.H., Tarfaoui, M. and El Moumen, A. (2017) ‘Progressive Damage Modeling in laminate composites under slamming impact water for naval applications’, *Composite Structures*, 167, pp. 178–190. doi:10.1016/j.compstruct.2017.02.004.

Hibbeler, R. (2007). *Engineering mechanics: Dynamics*. Pearson Prentice Hall.

Barbero, E. J. (2023). *Finite element analysis of composite materials using Abaqus*. CRC Press.

Meriam, J. L., & Kraige, L. G. (2010). *Dynamics*. Wiley.



**STUDI PENGARUH BEBAN IMPAK BERKECEPATAN TINGGI TERHADAP MASKARA KERETA CEPAT YANG TERBUAT DARI MATERIAL CFRP, GFRP, CFRP/KFRP, DAN GFRP/KFRP MENGGUNAKAN COMPUTER AIDED ENGINEERING**

UNIVERSITAS  
GADJAH MADA

Faishal Aly Mufid, Dr. Gesang Nugroho, S.T., M.T.

Universitas Gadjah Mada, 2023 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Chen, X.-D. et al. (2017) ‘Analysis of the aerodynamic effects of different nose lengths on two trains intersecting in a tunnel at 350 km/h’, *Tunnelling and Underground Space Technology*, 66, pp. 77–90. doi:10.1016/j.tust.2017.04.004.

(2023) *Dassault Systèmes*. Available at: <http://www.3ds.com/> (Accessed: 29 June 2023).

Abdul Aziz, M.U. (2022) *Sifat Mekanik Komposit Sandwich Cfrp/Abs/Cfrp Yang Difabrikasi Menggunakan Metode Bladder Compression Molding (BCM)* [Preprint].

Saputra, H. (2008) *Modelling Impak Pada Panel Bahan Komposit Dengan Metode Elemen Hingga* [Preprint].

Ramadhan, A.R. (2022) *Evaluasi Distribusi Temperatur Dan Displacement Pada Modifikasi Expansion Joint Akibat Beban Termal Menggunakan Metode Pendekatan Finite Element Analysis* [Preprint].

Mazumdar, S.K. (2002) *Composites manufacturing: Materials, product, and Process Engineering*. Boca Raton, FL: CRC Press.

Lei, M. et al. (2021) ‘Evaluation method of granite multiscale mechanical properties based on nanoindentation technology’, *Geofluids*, 2021, pp. 1–9. doi:10.1155/2021/6745900.

Villeneuve, M.C. et al. (2018) ‘Estimating in situ rock mass strength and elastic modulus of granite from the Soultz-sous-forêts geothermal reservoir (France)’, *Geothermal Energy*, 6(1). doi:10.1186/s40517-018-0096-1.

Hair, Jr., Joseph F., et. al. (2011). Multivariate Data Analysis. Fifth Edition. New Jersey: PrenticeHall, Inc

*Intermittent Contact/Impact, abaqus-*  
[docs.mit.edu/2017/English/SIMACAETHERefMap/simathe-c-intercontact.htm](https://docs.mit.edu/2017/English/SIMACAETHERefMap/simathe-c-intercontact.htm). Accessed 26 Aug. 2023.