

## DAFTAR PUSTAKA

- Abramowicz, W. (2003). Thin-walled structures as impact energy absorbers. *Thin-Walled Structures*, 41(2–3), 91–107. [https://doi.org/10.1016/S0263-8231\(02\)00082-4](https://doi.org/10.1016/S0263-8231(02)00082-4)
- ABRAMOWICZ, W., & JONES, N. (1986). *DYNAMIC PROGRESSIVE BUCKLING OF CIRCULAR SQUARE TUBES* w. 4(4), 243–270.
- Alavi Nia, A., & Parsapour, M. (2014). Comparative analysis of energy absorption capacity of simple and multi-cell thin-walled tubes with triangular, square, hexagonal and octagonal sections. *Thin-Walled Structures*, 74, 155–165. <https://doi.org/10.1016/j.tws.2013.10.005>
- Browne, A. L., & Johnson, N. L. (2017). *IMECE2005-79158*. 1–9.
- Chen, W., & Wierzbicki, T. (2001). Relative merits of single-cell, multi-cell and foam-filled thin-walled structures in energy absorption. *Thin-Walled Structures*, 39(4), 287–306. [https://doi.org/10.1016/S0263-8231\(01\)00006-4](https://doi.org/10.1016/S0263-8231(01)00006-4)
- Chen, Y., Clausen, A. H., Hopperstad, O. S., & Langseth, M. (2009). Stress-strain behaviour of aluminium alloys at a wide range of strain rates. *International Journal of Solids and Structures*, 46(21), 3825–3835. <https://doi.org/10.1016/j.ijsolstr.2009.07.013>
- Da Costa, C. E., De Aguiar, L., & Borrás, V. A. (2006). Properties of AA6061 aluminum alloy reinforced with different intermetallics and ceramics particles. *Materials Science Forum*, 530–531, 255–260. <https://doi.org/10.4028/www.scientific.net/msf.530-531.255>
- Haslindar, Y. S., Supriyadi, A., & Muttaqien, A. Y. (2015). Analisis Tegangan dengan Metode Elemen Hingga pada Spillway Bendungan dengan Penggantian Bentuk Mercuri. *E-Jurnal Matriks Teknik Sipil*, 224–231.
- Hidayat, A. (2014). Pilihan Uji Normalitas Berdasarkan Software-Jumlah Sampel.
- Istiyanto, J., Hakiman, S., Sumarsono, D. A., Kiswanto, G., Baskoro, A. S., & Supriyadi, S. (2014). Experiment and numerical study – Effects of crush initiators under quasi-static axial load of thin wall square tube. *Applied Mechanics and Materials*, 660, 628–632. <https://doi.org/10.4028/www.scientific.net/AMM.660.628>

- Mahmoodi, A., Shojaeefard, M. H., & Saeidi Googarchin, H. (2016). Theoretical development and numerical investigation on energy absorption behavior of tapered multi-cell tubes. *Thin-Walled Structures*, *102*, 98–110.  
<https://doi.org/10.1016/j.tws.2016.01.019>
- Maria, A. (1997). Introduction to modeling and simulation. *Proceedings of the 29th Conference on Winter Simulation - WSC '97*.  
<https://doi.org/10.1145/268437.268440>
- Montgomery, D. C., & Runger, G. C. (2003). The Role of Statistics in Engineering. In *Applied Statistics and Probability for Engineers* (3rd ed.). New York: John Wiley & Sons.
- Quality, E. (n.d.). *the Taguchi Approach*. (level 1), 1–2.
- Roy, R. (2001). Design of Experiment Using The Taguchi Approach: 16 step to product and process improvement. *Technometrics*.  
<https://doi.org/10.1198/004017002320256440>
- Society, I. B. (2011). Sir Ronald Fisher and the Design of Experiments Author ( s ): F . Yates Reviewed work ( s ): Source : Biometrics , Vol . 20 , No . 2 , In Memoriam : Ronald Aylmer Fisher , 1890-1962 ( Jun . , Published by : International Biometric Society Stable URL : <http://www.biometrics.com> . *Society*, *20*(2), 307–321.
- Sorgdrager, A. J. (2017). *Design of Line-Start Permanent Magnet Synchronous Machines Using the Taguchi Method*. (September), 189.
- Tarlochan, F., Samer, F., Hamouda, A. M. S., Ramesh, S., & Khalid, K. (2013). Design of thin wall structures for energy absorption applications: Enhancement of crashworthiness due to axial and oblique impact forces. *Thin-Walled Structures*, *71*, 7–17. <https://doi.org/10.1016/j.tws.2013.04.003>
- Tran, T., Hou, S., Han, X., Tan, W., & Nguyen, N. (2014). Theoretical prediction and crashworthiness optimization of multi-cell triangular tubes. *Thin-Walled Structures*, *82*, 183–195. <https://doi.org/10.1016/j.tws.2014.03.019>
- Tsai, J. T., Chou, J. H., & Liu, T. K. (2006). Tuning the structure and parameters of a neural network by using hybrid Taguchi-genetic algorithm. *IEEE Transactions on Neural Networks*, *17*(1), 69–80.  
<https://doi.org/10.1109/TNN.2005.860885>
- Ulco, L. (2011). A barplot ( y ) D dotchart ( y ) G plot ( x , y ) B plot ( x , y , type

= " b ") E plot ( x , predict . lm ( lm ( y x + I ( x ^ 2 ) ) ) ) H plot ( x , y , pch = 20 , cex = 2 ) C plot . ts ( ts ( y ) ) F scatter . smooth ( x , y ) I plot ( x , y , type = ' l ' . *October*, 5(10), 2–4.

Wang, J., Zhang, Y., He, N., & Wang, C. H. (2018). Crashworthiness behavior of Koch fractal structures. *Materials and Design*, 144, 229–244.

<https://doi.org/10.1016/j.matdes.2018.02.035>

Xu, X., Zhang, Y., Wang, J., Jiang, F., & Wang, C. H. (2018). Crashworthiness design of novel hierarchical hexagonal columns. *Composite Structures*, 194(June 2017), 36–48. <https://doi.org/10.1016/j.compstruct.2018.03.099>

Zhang, Y., He, N., Song, X., Chen, T., & Chen, H. (2019). Thin-Walled Structures On impacting mechanical behaviors of side fractal structures.

*Thin-Walled Structures*, (October), 106490.

<https://doi.org/10.1016/j.tws.2019.106490>

Zhang, Y., Wang, J., Wang, C., Zeng, Y., & Chen, T. (2018). Crashworthiness of bionic fractal hierarchical structures. *Materials and Design*, 158, 147–159.

<https://doi.org/10.1016/j.matdes.2018.08.028>

Zhang, Z., Liu, S., & Tang, Z. (2010). Crashworthiness investigation of kagome honeycomb sandwich cylindrical column under axial crushing loads. *Thin-Walled Structures*, 48(1), 9–18. <https://doi.org/10.1016/j.tws.2009.08.002>

