

DAFTAR PUSTAKA

- Abd, S. M., Mhaimeed, I. S., Tayeh, B. A., Najm, H. M., & Qaidi, S. (2022). Flamingo Technique As An Innovative Method To Improve The Shear Capacity Of Reinforced Concrete Beam. *Case Studies in Construction Materials*, <https://doi.org/10.1016/j.cscm.2022.e01618>
- ACI 318-02. (1995). Building Code Requirements For Structural Concrete ACI 318-02. American Concrete Institute, 65–70.
- ACI 318-19. (2019). Building Code Requirements for Structural Concrete and Commentary ACI 318-19. American Concrete Institute. <https://doi.org/https://doi.org/10.14359/51716937>
- Adha, A. N., Abdi, F. N., & Sutanto, H. (2020). Analisis Struktur Rangka Batang 2D Dengan Metode Matriks Kekakuan Menggunakan Aplikasi Matlab. *Jurnal Teknologi Sipil Jurnal Ilmu Pengetahuan Dan Teknologi Sipil*, 15–18.
- Anggraini, R., Tanjung, J., Sunaryati, J., Thamrin, R., & Aryanti, R. (2016). Studi Eksperimental Perilaku Geser Balok Pada Sambungan. *Jurnal Rekayasa Sipil (JRS-Unand)*, 12(1), 24–36.
- Beres, A. B., & Rabbat, B. G. (2007). Strut and Tie Model for Structural Concrete Design. In *Professional Development Serires (Issue October)*.
- Borges, J. A., Amaral, R. R., Isoldi, L. A., Casas, W. J. P., & Gomes, H. M. (2023). A Novel BESO Methodology for Topology Optimization of Reinforced Concrete Structures: A Two-loop Approach. *Journal of Applied and Computational Mechanics*, 9(2), 498–512. <https://doi.org/10.22055/jacm.2022.41708.3799>
- McCormac, J. C., & Brown, R. H. (2013). *Design of Reinforced Concrete* 9th Ed. 742.
- Chalisto, J., Mamarimbing, N., Kawet, R. S. S. I., & Roring, R. F. (2023). Analisis Perbandingan Perhitungan Gaya-Gaya Dalam Program SAP 2000 V21 Dengan Metode Matriks Kekakuan Pada Gedung Rumah Susun Mahasiswa Universitas Negeri Manado. *Jurnal Ilmiah Media Engineering*, 13(1), 11–24. <https://ejournal.unsrat.ac.id/v3/index.php/jime/article/view/49228>
- Chen, H., Wang, L., & Zhong, J. (2019). Study On An Optimal Strut And Tie Model For Concrete Deep Beams. *Applied Sciences (Switzerland)*, 9(17). <https://doi.org/10.3390/app9173637>
- Asroni, A. (2017). *Teori Dan Desain Balok Plat Beton Bertulang Berdasarkan Sni 2847-2013*. Muhammadiyah University Press, 23-24.
- Doris, A., Kurniawan, R., & Thamrin, R. (2023). Design And Analysis Of Beam With Opening Using Strut And Tie Model. *Cived*, 10(3), 959–973. <https://doi.org/10.24036/cived.v10i3.34>
- Hardjasaputra, H. (2002). Model Penunjang dan Pengikat (Strut and Tie Model) Pada Perancangan Struktur Beton. Universitas Pelita Harapan: Jakarta.
- Hardjasaputra, H. (2015). Evolutionary Structural Optimization As Tool In Finding Strut-And-Tie-Models For Designing Reinforced Concrete Deep Beam. *Procedia Engineering*, 995–1000. <https://doi.org/10.1016/j.proeng.2015.11.153>
- Schodek, D. L. (1990). *Struktur*. PT Eresco. https://doi.org/10.1007/978-3-642-93451-3_7
- Lallotra, B., & Singhal, D. (2017). State of the Art Report - A Comparative Study of Structural Analysis and Design Software - STAAD Pro, SAP-2000 & ETABS Software. *International Journal of Engineering and Technology*, 9(2), 1030–1043.
- Monalita, I., Saifullah, H. A., & Kristiawan, S. A. (2022). Kajian Numerik Kinerja Geser Balok Beton Bertulang dengan Perbaikan Menggunakan UPR-Mortar (Studi Kasus: Balok dengan Rasio Bentang Geser terhadap Tinggi Efektif 3.08 dan Lokasi Perbaikan di Tengah Bentang Geser). *Matriks Teknik Sipil*, 10(1), 24. <https://doi.org/10.20961/mateksi.v10i1.55242>

- Nasution, P. M. H., Tarigan, J., & Handana, M. A. P. (2002). Analisa Dan Perencanaan Balok Tinggi Dengan Variasi Perletakan Menggunakan Metode Strut and Tie. 1–10.
- Nawy, E. G. (1998). Beton Bertulang Suatu Pendekatan Dasar. PT Refika Aditama.
- Nilsson, S., & Öhman, P. (2019). Structural Optimization For Effective Strut-And-Tie Models Design Of Support Crossbeams In Single Girder Concrete Bridges.
- Nur, O. F. (2009). View Of Kajian Eksperimental Perilaku Balok Beton Tulangan Tunggal Berdasarkan Tipe Keruntuhan Balok. Jurnal Rekayasa Sipil (JRS-Unand), 14.
- Panjehpour, M., Chai, H. K., & Voo, Y. L. (2015). Refinement Of Strut And Tie Model For Reinforced Concrete Deep Beams. Plos One, 10(6), 1–17. <https://doi.org/10.1371/journal.pone.0130734>
- Ridho, A. M. R., Wicaksono, F. P., Saifullah, H. A., Budi, A. S., & Suproyadi, A. (2022). Perilaku Geser Balok Bertulang Hvf-a-Scc (Studi Kasus Balok Dengan Rasio Bentang Geser Terhadap Tinggi Efektif 2.5). Jurnal Matriks Teknik Sipil, 10(2), 161. <https://doi.org/10.20961/mateksi.v10i2.55607>
- Thamrin, R. (2014). Studi Parametrik Pergerakan Garis Netral Pada Penampang Balok Beton Bertulang dengan Program RCCSA.
- Thamrin, R., Aziz, A., Chuan, E. Y. D., & Eng, Y. (2011). Experimental Study On Diagonal Shear Cracks Of Concrete Beams Without Stirrups. 1–8.
- Thamrin, R., Zaidir, & Wahyuni, A. (2023). Shear Capacity Of Reinforced Concrete Beams Strengthened With Web Bonded Steel Bars Or Steel Plates. Results in Engineering, 17, <https://doi.org/10.1016/j.rineng.2023.100953>
- Wijaya, T. R., Abdi, F. N., & Haryanto, B. (2024). Analisis Pelat Berlubang Dengan Aplikasi Metode Elemen Hingga EAoSM Dan SAP 2000 (Shell Multilayered Mesh Elements). Teknologi Sipil : Jurnal Ilmu Pengetahuan Dan Teknologi, 8(1), 37. <https://doi.org/10.30872/ts.v8i1.16023>
- Yoganata, Y. S., Shakti, D. O. D., Ilman, M. F., & Nugroho, T. E. (2025). Planning And Testing Of A Balsa Wood Truss Bridge Using The Variable Of Truss Weight Against. 19(2), 33–40. <https://doi.org/10.33795/Prokons>
- Wicaksono, D.A, Suryanita, R., & Djauhari, Z. (2019). Studi Eksperimental Balok Beton Bertulang Dengan Dan Tanpa Sengkang. Jurnal Saintek STT, 32–39. <https://doi.org/10.35583/js.v7i1.14>

