

DAFTAR PUSTAKA

- Abdellatef, M.; Vorel, J.; Wan-Wendner, R. & Alnaggar, M. 2019. Predicting Time-Dependent Behavior of Post-Tensioned Concrete Beams: Discrete Multiscale Multiphysics Formulation. *Journal of Structural Engineering* 145(7): 1–13, [https://doi.org/10.1061/\(asce\)st.1943-541x.0002345](https://doi.org/10.1061/(asce)st.1943-541x.0002345).
- Arifi, E., & Setyowulan, D. 2020. *Perencanaan Struktur Baja: Berdasarkan SNI 1729: 2020*. Universitas Brawijaya Press.
- Cervenka et al. 2021. Theory. Czech Republic.
- Dady, Y.T. 2015. Pengaruh Kuat Tekan Terhadap Kuat Lentur Balok Beton Bertulang. *Jurnal Sipil Statik* 3(5): 341–350.
- El-Tawil, S. & Deierlein, G.G. 1999. Strength And Ductility Of Concrete Encased Composite Columns 2000(September 1999): 1009–1019.
- Al Faridi, S. 2010. Modul Pelatihan Analisis Non-Linier Elemen Hingga dengan ATENA 2.1.8 Demo. *Universitas Gajah Mada, Yogyakarta* 1.
- Ghosni, N.; Samali, B. & Vessalas, K. 2013. Energy absorption and flexural toughness evaluation of fibre reinforced polymer modified concrete. Proceedings of the 8th International Conference on Fracture Mechanics of Concrete and Concrete Structures, FraMCoS 2013, pp. 1122–1130, 15 July 2013.
- Haryanto, Y.; Gan, B.S.; Widyaningrum, A. & Maryoto, A. 2017. Near surface mounted bamboo reinforcement for flexural strengthening of reinforced concrete beams. *Jurnal Teknologi* 79(6): 233–240, <https://doi.org/10.11113/jt.v79.10767>.
- Haryanto, Y.; Hsiao, F.P.; Hu, H.T.; Han, A.L. & ... 2023. Validating an analytical method to predict flexural behavior of RC T-beams retrofitted with bonded steel wire ropes in the negative moment region. *AIP Conference* ..., <https://pubs.aip.org/aip/acp/article-abstract/2482/1/030001/2867293>.
- Haryanto, Y.; Hu, H.T.; Han, A.L.; Hsiao, F.P. & ... 2021. Numerical investigation on RC T-beams strengthened in the negative moment region using NSM FRP rods at various depth of embedment. *Computers and* ..., <https://koreascience.kr/article/JAKO202131541861416.page>.
- Haryanto, Y.; Wariyatno, N.G.; Hsiao, F.P.; Hu, H.T. & ... 2025. RC T-beams with flexural strengthening in the negative moment region under different configurations of NSM CFRP rods. *Engineering Failure* ..., <https://www.sciencedirect.com/science/article/pii/S1350630725001992>.
- Hosen, M.A.; Jumaat, M.Z.; Darain, K.M.U. & ... 2014. Flexural strengthening of RC beams with NSM steel bars. *Proceedings of the* ..., <http://iicbe.org/upload/9936C614512.pdf>.
- Imjai, T.; Setkit, M.; Figueiredo, F.P.; Garcia, R.; Sae-Long, W. & Limkatanyu, S. 2023. Experimental and numerical investigation on low-strength RC beams strengthened with side or bottom near surface mounted FRP rods. *Structure and Infrastructure*

- Engineering* 19(11): 1600–1615, <https://doi.org/10.1080/15732479.2022.2045613>.
- Liu, I.S.; Oehlers, D.J. & Seracino, R. 2006. Tests on the Ductility of Reinforced Concrete Beams Retrofitted with FRP and Steel Near-Surface Mounted Plates. *Journal of Composites for Construction* 10(2): 106–114, [https://doi.org/10.1061/\(asce\)1090-0268\(2006\)10:2\(106\)](https://doi.org/10.1061/(asce)1090-0268(2006)10:2(106)).
- MacGregor, H.H.H.I. and J.G. 1997. Modification of the ACI Rectangular Stress Block for High-Strength Concrete. *ACI Structural Journal* 94(1), <https://doi.org/10.14359/459>.
- Madandoust, R. & Kazemi, M. 2017. Studiu analitic asupra rezistenței la întindere a betonului. *Revista Romana de Materiale/ Romanian Journal of Materials* 47(2): 204–209.
- Marpaung, R.; Suhadi & Tilik, L. 2013. Perbandingan Energi Pada Percobaan Beton Bertulang Akibat Pembebanan Siklik Dan Monotonik 9(2): 126–133.
- Nawy, E.G. 1998. Beton Bertulang. *Suatu Pendekatan Dasar (Terjemahan)*.
- Olajumoke, A.M. & Dundu, M. 2014. Methods for flexural strengthening of reinforced concrete elements using steel plates. *Construction Materials and Structures*, <https://doi.org/10.3233/978-1-61499-466-4-1080>.
- Poli, A.A. & Cirillo, M.C. 1993. On the use of the normalized mean square error in evaluating dispersion model performance. *Atmospheric Environment Part A, General Topics* 27(15): 2427–2434, [https://doi.org/10.1016/0960-1686\(93\)90410-Z](https://doi.org/10.1016/0960-1686(93)90410-Z).
- Pujantara, R. 2014. Seni Struktur Beton Bertulang Dalam Perspektif Fleksibilitas Bentuk Dan Arsitektur Plastis Pada Rancangan Dekonstruksi 12(2).
- R. Park. and T . Paulay. 1975. Ductile Reinforced Concrete Frames - Seismic 8(March).
- Sabatini, D. 2014. Perkuatan Balok Beton Bertulang Metode Near Surface Mounted Menggunakan Baja Tulangan. *Skripsi: Universitas Jenderal Soedirman*.
- Suhendi, D.S. 2019. Pengaruh Perkuatan Baja 3 Mm Dengan Near Surface Mounted (Nsm) Pada Kuat Tekan Lentur Balok Bertulang 1–17.
- Ujiyanto, M. 2006. Lendutan dan Kekakuan Balok Beton Bertulang dengan Lubang Segi Empat di Badan. *Jurnal eco REKAYASA* 2(2): 52–57.
- Utami, F.R. 2018. Studi Eksperimental Pengaruh jumlah perkuatan pada kekuatan lentur balok dengan metoda NSM (Near Surface Mounted). *Skripsi: Universitas Andalas*.
- Wang, W.; Liu, B. & Kodur, V. 2013. Effect of Temperature on Strength and Elastic Modulus of High-Strength Steel. *Journal of Materials in Civil Engineering* 25(2): 174–182, [https://doi.org/10.1061/\(asce\)mt.1943-5533.0000600](https://doi.org/10.1061/(asce)mt.1943-5533.0000600).
- Zhang, S.S.; Yu, T. & Chen, G.M. 2017. Reinforced concrete beams strengthened in flexure with near-surface mounted (NSM) CFRP strips: Current status and research needs. *Composites Part B: Engineering* 131: 30–42, <https://doi.org/10.1016/j.compositesb.2017.07.072>.