

## DAFTAR PUSTAKA

- ABAQUS/CAE Version 6.11 Standard Manual. 2011. Dassault Systems. Rhode Island. US.
- Ardalany. M.. B. L. Deam. & M. Fragiaco. 2010. *Numerical Investigation of the Load Carrying Capacity of Laminated Veneer Lumber (LVL) Joist with Holes*. In: World Conference on Timber Engineering.
- Awaludin. A. 2005. *Dasar-dasar Perencanaan Sambungan Kayu (Mengacu pada SNI-5 2002)*. Yogyakarta: Biro Penerbit Teknik Sipil. Fakultas Teknik. Universitas Gadjah Mada.
- Awaludin. A. 2005. *Moment Resistance Analysis on Various Configuration of Multiple-Bolt Timber Connection Using Beam on Elastic Foundation Theory and Rigid Plate Assumption*. Media Komunikasi Teknik Sipil. Volume 13. No. 2. Edisi XXXII.
- Awaludin. A. 2008. *Static and Dynamic Behavior of Bolted Timber Joints with Steel Splice Plates*. Disertasi. Japan: Hokkaido University.
- Awaludin. A.. et. al. 2010. *Moment Resisting Timber Joints with High Strength Steel Dowels: Natural Fiber Reinforcement*. In: 10th World Conference on Timber Engineering.
- Awaludin. A. 2011. *Sifat-Sifat Fisika dan Mekanika Kayu Glugu dan Sengon Kawasan Merapi dalam Rangka Mempercepat Pemulihan Ekonomi Masyarakat Merapi Pasca Letusan Merapi 2010*. Yogyakarta: Laboratorium Teknik Struktur. Jurusan Teknik Sipil dan Lingkungan. Fakultas Teknik. Universitas Gadjah Mada.
- Awaludin. A. 2011. *Hasil Pengujian LVL (*Paraserianthes falcataria*) Sengon*. Yogyakarta: Laboratorium Teknik Struktur. Jurusan Teknik Sipil dan Lingkungan. Fakultas Teknik. Universitas Gadjah Mada.
- Awaludin. A. et. al. 2012. *A Finite Element Analysis of Bearing Resistance of Timber Loaded Through A Steel Plate*. Civil Engineering Dimension. Vol. 14. No. 1. March 2012. pp. 1-6.
- Baker. W.A. et.al. 2002. *Structural Composit Lumber*. In APA Engineered Wood Handbook. T.G. Williamson. pp.6.1-6.2. McGraw-Hill. USA.
- Baljid. B. et.al. 2002. *Block Shear of Bolted Gusset Plates*. In 4<sup>th</sup> Structural Specialty Conference of the Canadian Society for Civil Engineering.
- Bjorhovde. R.. A. Colson. & J. Brozzetti. 1990. *Classification System for Beam-to-Column Connection*. *Journal of Structural Engineering* – ASCE. Vol. 116. No. 11. pp 3059-3076.
- Bodig. J. & B.A. Jayne. 1982. *Mechanics of Wood and Wood Composit*. Florida: Kreiger Publishing Company Malabar.
- Bowyer. J.L.. R. Shmulsky. & J.G. Haygreen. 2003. *Forest Product and Wood Science: An Introduction*. 4<sup>th</sup> ed. Iowa: Iowa State Press.

- Buchanan. A. 2007. *Timber Design Guide. 3rd edition*. Wellington: New Zealand Timber Industry Federation.
- Colak. et.al. 2004. *Some Technological Properties of Laminated Veneer Lumber Manufactured from Pine (*Pinus sylvestris* L.) Veneers with Melamine Added - UF Resins*. Turk J Agric For 28 (2004) 109-113.
- Design manual. *Steel Buildings in Europe. Single-Storey Steel Buildings Part 4: Detailed Design of Portal Frames*
- Eratodi. IGLB.. 2014. *Sambungan Balok Kolom Bambu Laminasi Menggunakan Pelat Baja Dikarter Dan Baut*. Disertasi. Yogyakarta: Jurusan Teknik Sipil dan Lingkungan. Fakultas Teknik. Universitas Gadjah Mada.
- Eriksson J. . Ormarsson. S.. and H. Petersson. 2005. *An Experimental and Numerical Study of Shape Stability in Laminated Timber Columns*. European Journal of Wood and Wood Products. published online @spinger Verlag Volume 63. Number 6 pp423-429.
- Frenete. C. D. 1997. *The Seismic Respons of A Timber Frame with Dowels Connection*. Columbia: The University of British Columbia.
- Guan. Z.W. and P.D. Rodd. 2001. *Hollow Steel Dowels – A New Application in Semi-rigid Timber Connections*. Engineering Structures. 23. pp. 110-119.
- Johansen. K.W. 1949. *Theory of Timber Connection*. International Assosiation of Bridge and Structural Engineering. 9. pp. 249-262.
- Kartal. M.E.. et. al. 2010. *Effect of Semi-Rigid Connection on Structural Responses*. In: Electronic Journal of Structural Engineering.
- Kennedy. S.. et. Al. 2014. *Design Equations for Embedment Strength of Wood for Threaded Fasteners in The Canadian Timber Design Code*. In: World Conference on Timber Engineering.
- Kharouf. N. 2001 *Post-elastic Behaviour of Bolted Connections in Wood*. Disertasi. Department of Civil Engineering and Applied Mechanics. McGill University. Montreal. QC. Canada.
- Kharouf N.. McClure G. and Smith I. 2005. *Postelastic Behavior of Single- and Double-bolt Timber Connections*. ASCE Journal of Structural Engineering;131(1):188-196.
- Khorasan. S. R. 2012. *Finite-Element Simulation of Glulam Beams with Natural Cracks*. Master's Degree Thesis. Sweden: Department of Mechanical Engineering. Blekinge Institute of Technology.
- Kiwelu. H. M. 2013. *Finite-Element Models of Effects of Moisture on Bolt Embedment and Connection Properties of Glulam*. Disertation. Canada: Graduate Academic Unit of Forestry and Environmental Management. The University of new Brunswick.
- Kusumah. S.S. et.al.. 2010. *Performance of Laminated Veneer Lumber from Three Species of Small Diameter Logs.. The 2<sup>nd</sup> International Symposium on IWoRS*. Bali. Indonesia. pp. 50-58.

- Krabbenhoft. K. 2003. *Moisture Transport in Wood - A Study of Physical-mathematical Models and Their Numerical Implementation*. Disertasi. Technical University of Denmark. Lyng by. Denmark.
- Leijten. A.J.M. 1998. *Densified Veneer Wood Reinforced Timber Joint with Expanded Tube Fasteners-The Development of a New Timber Joint*. Netherlands: Delft University Press.
- McGuire. W.. R. H. Gallagher. & R.D. Ziemian. 1999. *Matrix Structural Analysis*. 2nd ed. USA: John Wiley & Sons. Inc.
- Mesic. E. 2003. *Analysis of Timber Frames with Localized Nonlinearities*. Facta Universitatis. Architecture and Civil Engineering. Bosnia: University of Sarajevo.
- Mirianon. F.. et al. 2008. *A Method to Model Wood by Using ABAQUS Finite Element Software. Part 1 Constitutive Model and Computational Details*. Finland: VTT Technical Research Centre.
- Mirianon. F.. et al. 2008. *A Method to Model Wood by Using ABAQUS Finite Element Software. Part 2 Application to Dowel Type Connection*. Finland: VTT Technical Research Centre.
- Monforton. G. R. & T. S. Wu. 1963. *Matrix Analysis of Semi-Rigidly Connected Frames*. *Journal of Structural Division*. ASCE. Vol. 89. ST6. pp 13-42.
- Morris. H. and P. Quenneville. 2010. *Moment Deformation of Multi-nailed Joints in LVL – Development of A Long Term Test Procedure*. In World Conference on Timber Engineering.
- Moses D. M. 2000. *Constitutive and analytical models for structural composite lumber with applications to bolted connections*. Disertasi. Department of Civil Engineering. The University of British Columbia. Canada.
- Oh. S.C. 2010. *Estimation of Hankinson Formula. Maximum Stress Theory and Tsai-Hill Failure Theory to Determine The Strength of 3Ply Laminated Veneer Lumber with Grain Slope*. In World Conference on Timber Engineering.
- Paleowati. N. 2013. *Tahanan Lateral Sambungan Kayu LVL Sengon Dengan Alat Sambung Pasak Kayu*. Tesis. Yogyakarta: Jurusan Teknik Sipil dan Lingkungan. Fakultas Teknik. Universitas Gadjah Mada.
- Patton-Mallory M.. Cramer S.. Smith F. and Pellicane P. 1997. *Nonlinear material models for analysis of bolted wood connections*. ASCE Journal of Structural Engineering; 123(8):1063-1070.
- Pranata. Y. A. and B. Suryoatmono. 2013. *Nonlinier finite element of red Meranti compression at an angle to the grain*. J. Eng. Technol. Sci.. 45 (3). pp. 222-240.
- Pribadi. A. 2012. *Tahanan Lateral Panel Kayu Sengon Dengan Alat Sambung Paku Akiat Beban Monotonik dan Siklik*. Tesis. Yogyakarta: Jurusan Teknik Sipil dan Lingkungan. Fakultas Teknik. Universitas Gadjah Mada.

- Risnasari. I. 2008. *Kajian Sifat Fisis Kayu Sengon (Paraserianthes falcataria (L.) Nielsen) pada Berbagai Bagian dan Posisi Batang*. Medan: Universitas Sumatera Utara.
- SNI. 2013. *Spesifikasi Desain untuk Konstruksi Kayu*. SNI 7973:2013. Bandung: Badan Standardisasi Nasional.
- Thelandersson. S. & H. D. Larsen. 2003. *Timber Engineering*. London: Wiley & Sons.
- Theodarmo. H. 2013. *Perilaku Struktural Balok Susun LVL Sengon untuk Sistem Lantai Kayu*. Tesis. Yogyakarta: Jurusan Teknik Sipil dan Lingkungan. Fakultas Teknik. Universitas Gadjah Mada.
- Tsoumis. G. 1991. *Science and Technology of Wood: Structure. Properties. Utilization*. New York: Van Nostrand Reinhold.
- Wilkinson. T. L. 1992. *Strength of bolted timber connections with steel side members*. Res. Pap. FPL-RP513. Madison. WI: U.S. Department of Agriculture. Forest Service. Forest Products Laboratory. 10 p.
- Wakashima. Y., K. Okura, and K. Kyotani. 2010. *Development of ductile semi-rigid joints with lagscrewbolts and glued – in rods*. In World Conference on Timber Engineering.
- Wilkinson. T.L. 1978. *Stresses in the neighborhood of loaded holes in wood with application to bolted joints*. Disertasi. Madison: University of Wisconsin.
- Wilkinson. T. L. 1992. *Strength of bolted timber connections with steel side member*. Research Paper FPL-RP-524. Forest Products Laboratory. Forest Service. U.S. Department of Agriculture. Madison.