

CURRICULUM VITAE



1. Identitas

Nama : Dr. Eng. Eka Satria
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Pangkat/Golongan : Penata Muda / III-a
Jabatan Sekarang : Lektor
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2. Riwayat Pendidikan

1. Bachelor Degree in Mechanical Engineering, Andalas University, Indonesia, 1994-1999
2. Master Degree in Mechanical Engineering, University of Leeds, England, 2000-2001
3. Doctoral Degree in Mechanical and Structural System Engineering, Toyohashi University of Technology, Japan, 2005-2008
4. Postdoctoral in Mechanical and Structural System Engineering, Toyohashi University of Technology, Japan, 2008-2009

3. Mata kuliah yang Diasuh

1. Statika Struktur (Statics)
2. Elemen Mesin I (Machine Design I)
3. Metode Numerik (Numerical Methods)
4. Mekanika Kekuatan Material (Strength of Material)
5. Elemen Mesin II (Machine Design II)
6. Perancangan Teknik (Engineering Design)
7. Metode Elemen Hingga (Finite Element Method)

4. Fokus Penelitian

1. Computational Mechanics
2. Design of Structures: Static, Stability and Dynamics

5. Publikasi

Reviewed Papers:

1. **Satria, E.**; Kato, S.; Yun-Beom, K.; Nakazawa, S.; "Comparison of Design Formula for Buckling of Cylindrical Steel Shells under Axial Compression", Journal of Steel Construction Engineering (JSSC), Vol. 14(54), June, 2007, pp.27-41.
2. Kato, S., **Satria, E.**, Yun-Beom, K., Nakazawa, S., "Analysis of Nonlinear Behaviors and Feasibility for a New Type of Two-Way Single Layer Lattice Dome with Nodal Eccentricity using T-Joint Struts", Journal of Steel Construction Engineering (JSSC), Vol. 15(58), June, 2008, pp.21-36.
3. **Satria, E.**, Kato, S., Nakazawa, S., Kakuda, D., "Buckling Behavior of Two-Way Single Layer Lattice Dome with Nodal Eccentricity", Journal Structural Engineering (AIJ), Vol 54B, March, 2008, pp.679-692.
4. **Satria, E.**; Kato, S.; Nakazawa, S.; Kakuda, D.; "Study on Dynamic Behavior of a New Type of Two-Way Single Layer Lattice Dome with Nodal Eccentricity", Steel and Composite Structures, An International Journal, December, 2008, Vol.8 No.6, pp.511-530
5. Kato, S.; Higuchi, N.; **Satria, E.**; Nakazawa, S.; "Elasto-Plastic Buckling Strength of A Two-Way Dome Constructed by Orthogonal Arches in Different Surfaces Stiffened by Diagonal Struts – Feasibility study of a newly proposed two-way single layer dome", Journal Structural Engineering (AIJ), Vol 56B, March, 2010, pp.499-506.

International Conferences/Seminars:

1. Bur, M.; **Satria, E.**; "Numerical Analysis for Developing Dynamics of Parameter of Rigid Body System", Proceeding of Numerical Analysis in Engineering/NAE 2003, Batam, Indonesia, pp. 1.29-1.38.
2. **Satria, E.**; Kato, S.; Yun-Beom, K.; Nakazawa, S.; "Rigidity Analysis of Tubular T-Joints based on Finite Element Analysis (Applied to the Two-Way Single Layer Latticed Dome with Nodal Eccentricity)", Annual Meeting of AIJ (Architectural Institute of Japan), Fukuoka, Japan, August, 2007, pp.813-814.
3. Kakuda, D., Kato, S., Nakazawa, S.; **Satria, E.**, "Seismic Response Analysis and Buckling Loads of Two-way Elliptic Paraboloidal Single Layer lattice Dome with Eccentric Connection", Annual Meeting of AIJ (Architectural Institute of Japan), Fukuoka, Japan, August, 2007, pp.801-802.
4. Kato, S., **Satria, E.**, Nakazawa, S.; "Buckling Analysis of Two-Way Single Layer Lattice Dome with Nodal Eccentricity", International Conference of IASS, Venezia-Italy, December 2007, CD-ROM Paper No. 284T9.
5. Kato, S., **Satria, E.**, Nakazawa, S.; "Analysis Based on Estimation of Buckling Strength of Two-way Single Layer Latticed Dome with Semi Rigid

Connection", International Conference of IASS, Venezia-Italy, December 2007, CD-ROM Paper No. 138T9.

6. **Satria, E.**, Kato, S., Nakazawa, S., Kakuda, D.; "*Effectiveness of Applying T-Joint Struts on Two-Way Single Layer Lattice Dome Structures*", Annual Meeting of AIJ (Architectural Institute of Japan), Hiroshima, Japan, August, 2008, pp.889-890.
7. Kakuda, D., Kato, S., Nakazawa, S., **Satria, E.**; "*An Analysis of Earthquake Response of Two-Way Single Layer Lattice Dome with Nodal Eccentricity*", Annual Meeting of AIJ (Architectural Institute of Japan), Hiroshima, Japan, August, 2008, pp.887-888.
8. **Satria, E.**, Kato, S.; "*Estimation for Elasto-Plastic Buckling Loads of Two-Way Single Layer Lattice Dome with Nodal Eccentricity Using Concept of Column Buckling*", *Majalah INOVASI Online*, Vol.13/XXI/Maret 2009, ISSN: 0917-8376
9. **Satria, E.**, Kato, S., Nakazawa, S.; "*Form Finding of RC Shells Considering Multiple Design Loads*", The 9th Asian Pacific Conference on Shell and Spatial Structure, Nagoya, Japan, May, 2009
10. Hara, R., **Satria, E.**, Kato, S., Nakazawa, S.; "*A Proposal Numerical Technique to Replace Shell/Plate Elements with Bar Elements*", Annual Meeting of AIJ (Architectural Institute of Japan), Sendai, Japan, August, 2009.

Scientific Meetings/National Seminars:

1. **Satria, E.**, Kato, S.; "*Nonlinear Analysis of Tubular T-Joints under Monotonic Loading Based on Finite Element Analysis*", Annual Indonesian Scientific Conference, Kyoto, August 2007.CD-ROM:
2. **Satria, E.**, Kato, S.; "*Elasto-Plastic Buckling Loads of Cylindrical Steel Shells under Axial Compression (In Comparison to Eurocode-3 Recommendation)*", Indonesian Scientific Meeting for Chubu Area, Nagoya, March, 2008.
3. **Satria, E.**, Kato, S.; "*Estimation for Elasto-Plastic Buckling Loads of Two-Way Single Layer Lattice Dome with Nodal Eccentricity Using Concept of Column Buckling*", PPI-Chubu Scientific Meeting, Toyohashi, March, 2009.