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**Selected publications, Books:**

Stability and Optimization of Structures. [(2007)] Makoto Ohsaki, Kiyohiro Ikeda  
Ikeda K, Murota K. Imperfect bifurcation in structures and materials: engineering use of group-theoretic bifurcation theory. Berlin: Springer; 2002.

**Selected publications, Papers:**

1. Asymptotic and Probabilistic Approach to Buckling of Structures and Materials. [Appl. Mech. Rev, Volume 61(Issue 4),(2008),040801 (16 pages)] Kiyohiro Ikeda and Kazuo Murota
2. Loads of Structures via Extended Koiter Law. [Probabilistic Analysis of Buckling,(2008)] Kiyohiro Ikeda, Makoto Ohsaki, Kentaro Sudo, Toshiyuki Kitada
3. Probabilistic Analysis of Buckling Loads of Structures Extended Koiter Law. [Special Issue of the International Journal of Structural Engineering and Mechanics on "Uncertainty Modeling in Structural Analysis and Mechanics.,(2008)] Makoto Ohsaki, Kentaro Sudo, Toshiyuki Kitada
4. Systematic Enumeration of Critical Points of Imperfect Degenerate Hilltop Branching Points. [IJNM,(2008)] Kiyohiro Ikeda and Makoto Ohsaki
5. Generalized sensitivity and probabilistic analysis of buckling loads of structures. [International Journal of Non-Linear Mechanics,42,(2007),733-743] Kiyohiro IKEDA, Makoto Ohsaki
6. Imperfection sensitivity of ultimate buckling strength of elastic-plastic square plates under compression. [International Journal of Non-Linear Mechanics,42,(2007),529-541] Kiyohiro IKEDA, Toshiyuki Kitada, Masahide Matsumura, Yuuki Yamakawa
7. Generalization of Imperfection Sensitivity Law for Structures with Bilateral Symmetry. [7th World Congress on Computational Mechanics, CD-ROM,(2006)] Kiyohiro Ikeda

8. Imperfection sensitivity analysis of hill-top branching with many symmetric bifurcation points.[Int.J.of Solids and Structures,43,(2006),4704-4719] Makoto Ohsaki, Kiyohiro Ikeda  
Imperfection sensitivity of arch-type trusses with simultaneous snapthrough and member buckling.[IASS-APCS 2006,CD-ROM,(2006)] M. Ohsaki and K. Ikeda
9. Imperfection sensitivity of hilltop branching points of systems with dihedral group symmetry.[International Journal of Nonlinear mechanics,40(5),(2005),755-774] Kiyohiro IKEDA, Makoto OHSAKI, and Yoshihiro KANNO
10. Imperfection Sensitive Variation of Critical Loads at Hilltop Bifurcation Point.[Int. J. of Eng. Science,40,(2002),743-772] K. Ikeda, K. Oide, K. Terada
11. Modified stiffness iteration to pinpoint multiple bifurcation points.[Computer Methods in Appl. Mech. and Engng,190(18-19),(2001),2499-2522] F. Fujii, K. Ikeda, H. Noguchi, S. Okazawa
12. Bifurcation Hierarchy of a Rectangular Plate.[Int. J. Solids Structures,35(7-8),(1998),593-617] K.IKEDA and M.NAKAZAWA
13. Secondary buckling phenomena of elastic rectangular plate.[Proceedings of the 5th internaional colloquium on stability and ductility of steel structures,1,(1997),103-110] M.Nakazawa, K.Ikeda, T.Iwakuma, H.Kagawa and K.Yokoyama
14. Consistency of straight-beam approximation of a thin-walled circular beam.[Computers & Structures,60,(1996),87-93] T. Iwakuma, K. Ikeda and F. Nishino
15. Reliability of Structures Subject to Normally Distributed Initial Imperfections.[Computers and Structures,59(3),(1996),463-469] K. Ikeda, K. Murota, and I. Elishakoff
16. Multiple Equilibria for Unlinked and Weakly-linked Cellular Structural Forms.[Int. J. Solids Struct.,30(3),(1993),371-384] K. Ikeda, P. Providencia, and G.W. Hunt
17. Computation of Critical Initial Imperfection of Truss Structures.[Journal of Engineering Mechanics, Proceedings of the American Society of Civil Engineers.,116(10),(1990),2101-2117] K. Ikeda and K. Murota
18. Critical Initial Imperfection of Structures.[Int. J. Solids Struct.,26(8),(1990),865-886] K. Ikeda and K. Murota
19. Bifurcation Behavior of an Axisymmetric Elastic Space Truss.[Structural Engineering/Earthquake Engineering, Proc. JSCE,I-9(392),(1988),209s-212s] K. Ikeda, F. Nishino, W. Hartono, and K. Torii
20. Group Theoretic Study of Bifurcation Points of Truss Dome Structures.[Structural Engineering/Earthquake Engineering, Proc. JSCE,I-8(386),(1987),249s-258s] K. Ikeda and K. Torii
21. Group Theoretic Description of Bifurcation Behavior of Axisymmetric Regular Polygonal Truss Domes.[Structural Engineering/Earthquake Engineering, Proc. JSCE,I-8(386),(1987),237s-247s] K. Ikeda and K. Torii
22. Bifurcation Behavior of an Octagonal Truss Dome with Imperfections.[Structural Engineering/Earthquake Engineering, Proc. JSCE,I-7(380),(1987),225s-228s] K. Ikeda and K. Torii
23. Group Theoretic Categorization of Bifurcation Modes of Truss Dome Structures.[Structural Engineering/Earthquake Engineering, Proc. JSCE,I-6(374),(1986),257s-266s] K. Ikeda, K. Torii, and S. Matushita
24. Symmetry Breaking Bifurcation Behavior of Dome Structures and Group Theory.[Structural Engineering/Earthquake Engineering, Proc. JSCE,I-5(368),(1986),113s-122s] K. Ikeda, S. Matushita, and K. Torii
25. K. Ikeda and K. Murota, Bifurcation analysis of symmetric structures using block diagonalization. Comput. Methods Appl. Mech. Engrg. 86 (1991), pp. 215–243.
26. K. Ikeda, K. Murota and H. Fujii, Bifurcation hierarchy of symmetric structures. Int. J. Solid Struct. 27 12 (1991), pp. 1551–1573.
27. K. Murota and K. Ikeda, Computational use of group theory in bifurcation hierarchy analysis of symmetric

structures. SIAM L. Sci. Stat. Comput. 12 2 (1991), pp. 273–297.

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“Random initial imperfections of structures”, International Journal of Solids and Structures, Vol. 28, No. 8, 1991, pp. 1003-1021, doi:10.1016/0020-7683(91)90125-Y

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“Statistics of normally distributed initial imperfections”, International Journal of Solids and Structures, Vol. 30, No. 18, 1993, pp. 2445-2467, doi:10.1016/0020-7683(93)90160-9