



Professor Jeong-Whan Yoon

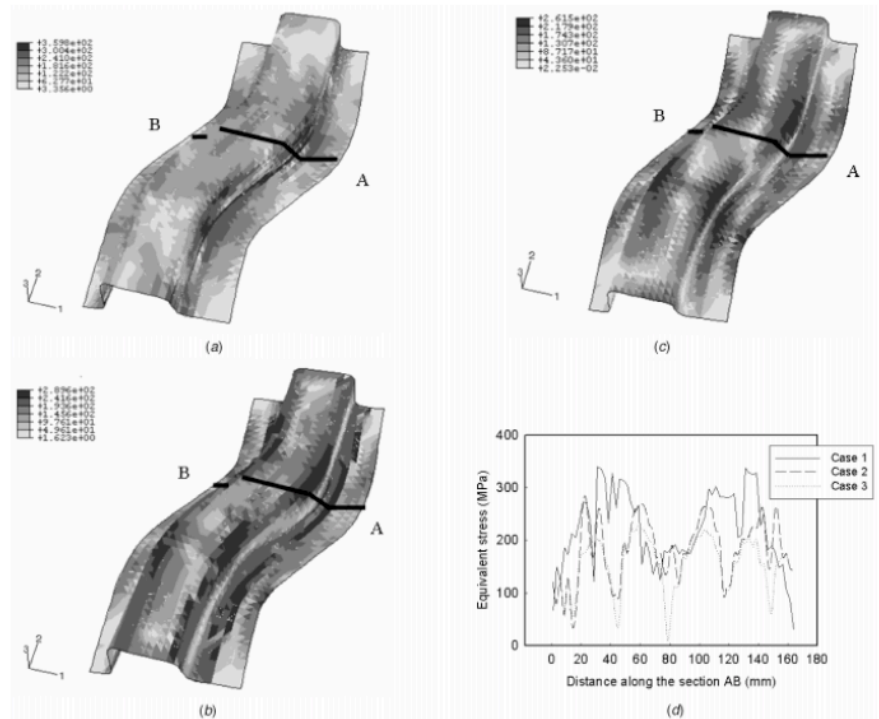


Fig. 9 Equivalent stresses obtained from the (a) full analysis, (b) ideal forming with hybrid approach and (c) ideal forming without hybrid approach, along with (d) comparison along the section AB

From: Hansun Ryou, Kwansoo Chung, Jeong-Whan Yoon, Chung-Souk Han, Jae Ryoun Youn and Tae Jin Kang, “Incorporation of sheet-forming effects in crash simulations using ideal forming theory and hybrid membrane and shell method”, ASME Journal of Manufacturing Science and Engineering, Vol. 127, pp 182-192, February 2005

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Biography:

Prof. Jeong Whan Yoon is currently Professor of Mechanical Engineering at KAIST, Korea and also Professor of Applied Mechanics at Deakin University, Australia. He is leading the International Consortium for Innovative Manufacturing (ICIM) with General Motors toward high reliability design and manufacturing for lightweight materials and structures. He led Boeing-chaired manufacturing research (AusAMRC) at Swinburne University. He has published over 200 technical papers for international journals and conferences with over 3300 citations (H-index: 30). He received “2008 International Journal of Plasticity Award” for outstanding contributions in the field of plasticity. He has been serving as an “Associate Editor” member for International Journal of Plasticity since 2008. As guest editors, he edited six special issues at Int. J. Plasticity and one issue at Int. J. Solids & Structures. He also has diverse industry experiences including LG Electronics (Korea) for

product development, MSC Software Corporation (USA) for MSC. Nastran & Marc source code development and Alcoa Technical Center (USA). He served as the chairman of NUMISHEET2014 held in Melbourne, Australia. He received his PhD at KAIST in 1997.

Education:

1993.3 – 1997.2 Ph.D (1997), Dept. of Mechanical Engineering, KAIST; LG Electronics scholarship student
1991.3 – 1993.2 M.S. (1993), Dept. of Precision Eng. & Mechatronics, KAIST; LG Electronics scholarship student
1987.3 – 1991.2 B.S. (1991), Dept. of Precision Mechanical Eng., Hanyang Univ.

Publications:

Over 200 papers in international journals and conferences; Over 4,904 Citations (SCOPUS) and H-index of 35

Selected Publications:

J.W. Yoon, I.S. Song, D.Y. Yang, K. Chung and F. Barlat (1995). Finite element method for sheet forming based on an anisotropic strain-rate potential and the convected coordinate system. *International Journal of Mechanical Science*, 37, 733.

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