

Professor Bjørn Skallerud

See:

https://www.researchgate.net/profile/Bjorn_Skallerud

Mechanical Engineering

Norwegian University of Science and Technology, Trondheim, Norway

Selected Publications:

Book:

B. Skallerud and J. Amdahl, *Nonlinear Analysis of Offshore Structures*, Research Studies Pre, 2002, 340 pages

Journal Articles:

B. Skallerud and B. Haugen, Collapse of thin shell structures: Stress resultant plasticity modeling within a co-rotated ANDES finite element formulation, *Int. J. Numer. Meth. Engrg.*, 46, 1961–1986, 1999.

Abuu K. Mohammed, Bjørn Skallerud and Jørgen Amdahl, “Simplified stress resultants plasticity on a geometrically nonlinear constant stress shell element”, *Computers & Structures*, Vol. 79, No. 18, July 2001, pp. 1723-1734

Skallerud, B., Myklebust, L.I. and Haugen, B. (2001). Nonlinear response of shell structures: effects of plasticity modeling and large rotations. *Thin-Walled Structures*, 39, 463-482.

M. Chiesa, B. Skallerud and D. Gross, Closed form line spring yield surfaces for deep and shallow cracks: formulation and numerical performance, *Computers & Structures*, 80, 533–545, 2002.

B. Skallerud, K. Holthe and B. Haugen, Combining high-performance thin shell and surface crack finite elements for simulation of combined failure modes, *Proc.7th US Nat. Congress in Computational Mechanics*, Albuquerque, NM, July 2003.

B. Skallerud, K. Holthe and B. Haugen, “Thin shell and surface crack finite elements for simulation of combined failure modes”, *Computer Methods in Applied Mechanics and Engineering*, Vol. 194, Nos. 21-24,

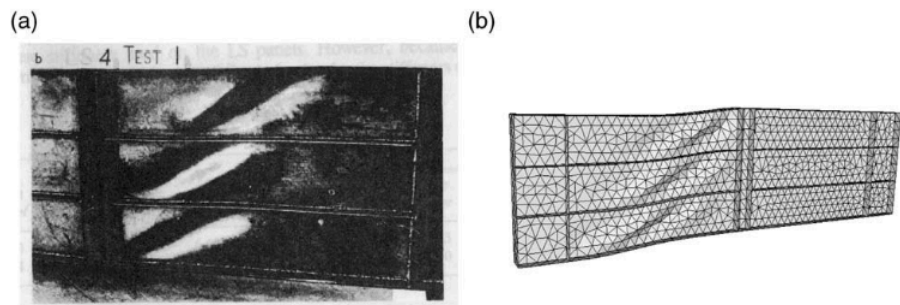


Fig. 11. Deformed stiffened girder. (a) Test, (b) simulation.

From: Skallerud, B., Myklebust, L.I. and Haugen, B. (2001). Nonlinear response of shell structures: effects of plasticity modeling and large rotations. *Thin-Walled Structures*, 39, 463-482

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