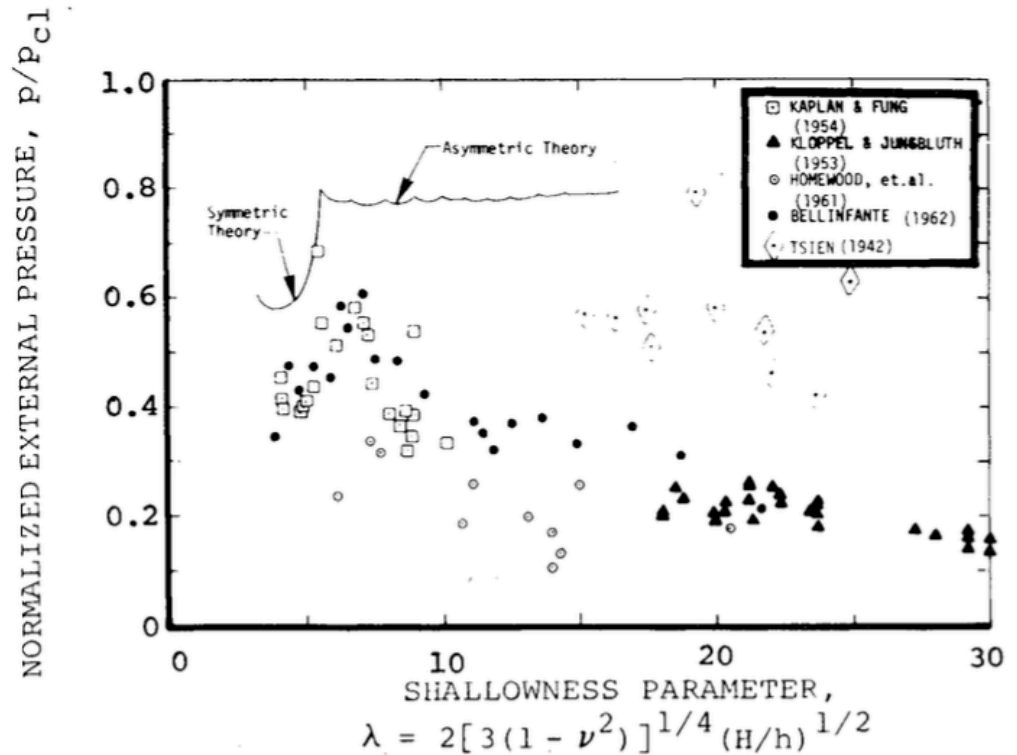




FIGURE 7-42
Kurt Klöppel at the age of 52
(Darmstadt TU archives)

Professor Kurt Klöppel (1901 – 1985)



From: Kaplan, A., "Buckling of Spherical Shells," Thin-Shell Structures: Theory, Experiment, and Design, edited by Y. C. Fung and E. E. Sechler, Prentice-Hall, Englewood Cliffs, N.J., 1974, pp. 248-288.

From the book, Karl-Eugen Kurrer, The History of the Theory of Structures from Arch Analysis to Computational Mechanics, Ernst & Sohn, 2008 (The left-hand image above is also from that book):

“...the main condition was the development of stability theory, the transition from member to continuum analysis, composite construction theory and lightweight steel construction. Kurt Klöppel, who in 1929 took charge of the Technical-Scientific Department of the DStV, was elected managing director of the DASt in 1935 and appointed professor at Darmstadt TH in 1938, recognised this fact; he became chief editor of the journal *Der Stahlbau* one year later, a post he held until 1981. His understanding of the fundamentals of structural steelwork was clearly emphasized in his presentation *Rückblick und Ausblick auf die Entwicklung der wissenschaftlichen Grundlagen des Stahlbaues* (review of and outlook for the development of the scientific basis of structural steelwork) [Klöppel, 1948, pp. 48 – 72] at the first DStV steelwork conference after the war (Hannover, 1947). Stability theory (buckling, local buckling, lateral buckling, torsional-flexural buckling), the transition from member to continuum analysis (beam grid, orthotropic plate), welding and materials science played the key roles.”

Selected Publications:

- Klöppel, K. and Lie, K.H., “The sufficient criterion for the point of bifurcation of the elastic equilibrium”, *Stahlbau*, 1943, S. 17
- Kloppel, K., Jungbluth, O. (1953) Beitrag zum Durchschlag problem dünnwandiger Kugelschalen—Versuche und Bemessungsformeln. (Contribution to the Durchschlag-problem in Thin walled Spherical Shells—Experiments and Design Formulas), *Der Stahlbau* 22: pp. 6-6

K. Klöppel and E. Roos, "Beitrag zum Durchschlagproblem dünnwandiger versteifter und unversteifter Kügelschalen für voll und halbseitige Belastung," Stahlbaum 25, No. 3, 49–60 (1956).

Klöppel, K. and Scheer, J., "The derivation of buckling determinants of rectangular plates with stiffeners, the plate being simply supported and the stiffeners parallel to the edges", Stahlbau, Vol. 25, 1956, S. 117

Klöppel, K. and Schardt, R. 1962. Zur Berechnung von Netzkuppeln, Der Stahlbau, Vol. 31, pp. 129–136

Klöppel K., Motzel E.: Traglastversuche an stählernen, unversteiften und ringversteiften Kegelstumpfschalen — Teil 1: Versuchsbericht, Stahlbau 45, 1976, No. 10. pp. 289–301.