Variational Methods in Elasticity and Plasticity (Monographs in Aeronautics & Astronautics)

Washizu, Kyuichiro

Note: This is not the actual book cover

Professor Kyuichiro Washizu (1921 – 1981)

Washizu, K. (1982) Variational Methods in Elasiticity and Plasticity, 3rd edn, Pergamon, NY.

See:
http://onlinelibrary.wiley.com/doi/10.1002/oca.4660040108/pdf
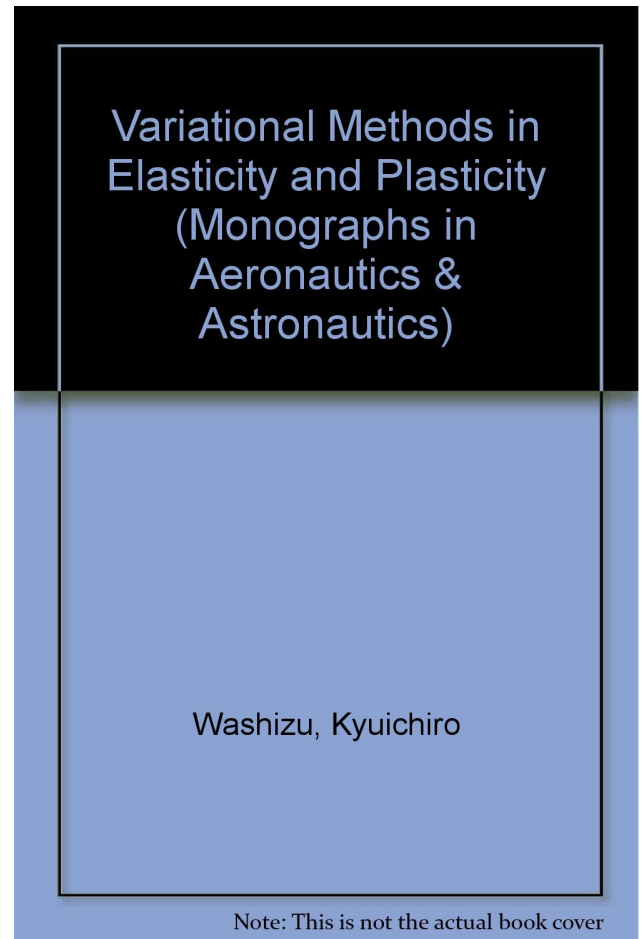http://arc.aiaa.org/doi/abs/10.2514/3.48592?journalCode=aiaaj

Biography (from Karl-Eugen Kurrer, The History of the Theory of Structures from Arch Analysis to Computational Mechanics, Ernst & Sohn, 2008, 848 pages):

*12.3.1921, Owari-Ichinomiya in Aichi, Japan, †25.11.1981, Tokyo, Japan

Following his education at the 3rd state grammar school in Kyoto, Kyuichiro Washizu studied at the Imperial University in Tokyo (1940 – 42) and was thereafter lecturer at the Faculty of Aircraft Construction at the University of Tokyo, serving as associate professor there from 1947 to 1958. Washizu studied and carried out research at the Massachusetts Institute of Technology (MIT) from 1953 to 1955 and gained his doctorate at the University of Tokyo in 1957 with a dissertation entitled *Approximate solutions in elastomechanics*. In 1958 he was appointed professor of aircraft construction at the University of Tokyo, where he worked until being granted emeritus status in 1981; he was appointed honorary professor of his Alma Mater later that same year. His subsequent appointment as professor of mechanical engineering at the Faculty of Fundamentals of Engineering Sciences at the University of Osaka was cut short after just a few months through sudden heart failure. Washizu's contributions to the calculus of variation fundamentals in structural mechanics had a profound influence on the finite element method during the integration period of structural theory. His

professional career was therefore of an international character: MIT research member (1960), visiting professor at the University of Washington (1962), distinguished visiting professor at the Georgia Institute of Technology (1979); President of the Japanese Institute of Aerospace Research in Tokyo (1979 – 80).

Main contributions in structural analysis: Boundary Value Problems in Elasticity [1953]; On the Variational Principles of Elasticity and Plasticity [1955]; Bounds for Solution of Note on the Principle of Stationary Complementary Energy Applied to Free Vibration of an Elastic Body [1966]; Variational Methods in Elasticity and Plasticity [1968, 1975, 1982].