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PAPERS OF Dr M. S. GREGORY, CIVIL ENGINEERING

Malcolm Spencer Gregpry, BA. BE. PhD. D.Eng. F.I.C.E., M.I.E. (Aust), was appointed lecturer in Civil Engineering in the University of Tasmania in 1956, became Senior Lecturer in 1959 and Reader in 1966.

These papers consist of records of laboratory work and other investigations in preparation for his 5 books: The history and development of civil engineering, 1974, An introduction to extremum principles, 1969, Elastic instability: analysis of buckling modes and loads of framed structures, 1967, Linear framed structures, 1966, Simple digital computing examples, 1971.

The papers are arranged in 24 folders, the subjects noted on the covers as listed below.

(See also UT 513)

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- 1 Buckling: triangles, experimental work.
- 2 The buckling of frames in and out of plane.
- 3 Torsion
- 4 Torsion
- 5 Laboratory work on a deformed plate
- 6 New Ligtenberg Moiré apparatus Nov. 1967
- 7 Cantilever plate measurements.
- 8 Lens figuring: work on 6" lenses 1967
- 9 Lens grinding
- 10 Lens figuring & camera design
- 11 "behaviour (frames etc)"
- 12 Batman Bridge costs & use of E.R.S. gauges for bridge balancing.
- 13 Mathematics: the use of measured strains to obtain the critical load of a triangular frame.
- 14 Moire methods tests

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- 15 Moiré methods tests and the optics of possible cameras elasticity.
- 16 Papers and notes on teaching.
- 17 Readings and notes on plates and shells.
- 18 Tests on a R.C. beam with hollow reinforcement allowing easy insertion of strain gauges of E.R.S. type.
- 19 Early tests on bolted angle frames.
- 20 vibrating two small R.C. beams - F. Woude, MS Gregory, 1972
- 21 History of Engineering, Longman's design series, June 1969,
- 'Notes used in writing my "History" '.
- 22 Computer problems (in structural analysis) - original computer programmes in Algol made, without any access to library programmes, under J. Boothroyd's verbal tuition, 1964
- 23 Moire - visualizing deformations & papers.
- 24 Tests on unreinforced and reinforced concrete arches (inc. plans & photographs with negatives).