

The following papers were donated to the IMfT library by Dr. Bela Lengyel

FACTORS INFLUENCING PHOSPHATE FILM FORMATION ON STEEL BLANKS FOR COLD EXTRUSION, a report prepared by the Surface Treatment Working Group of the British Cold Group, Metallurgia and Metal Forming, April 1976.

B. Avitzur: **ANALYSIS OF METAL EXTRUSION**, Journal of Engineering for Industry, February 1965.

R. Davies & S. M. Dhawan: **COMPARISON OF SOME STRAIN RATE EFFORTS IN SLOW AND HIGH SPEED BLANKING**, presented at the 9th International M.T.D.R. Conference held at the University of Manchester, September 1968.

R. Davies & S. M. Dhawan: **FURTHER DEVELOPMENTS IN HIGH SPEED BLANKING OF METALS**, presented at the 7th International M.T.D.R. Conference held at the University of Birmingham, September 1966.

T.A. Dean: **A PRELIMINARY WARM FORGING ESSAY**, presented at the 11th International M.T.D.R. Conference held at the University of Manchester, September 1970.

U. Diether: **GEOMETRICAL AND MECHANICAL PROPERTIES OF WARM EXTRUDED COMPONENTS**, Journal of Mechanical Working Technology, 2, 1978.

E. Doege, R. Melching & G. Kowallick: **INVESTIGATIONS INTO THE BEHAVIOUR OF LUBRICANTS AND THE WEAR RESISTANCE OF DIE MATERIALS IN HOT AND WARM FORGING**, Journal of Mechanical Working Technology, 2, 1978.

H. D. Feldmann: **DEVELOPMENT OF TOOLS FOR THE COLD FORGING PROCESS**, Institute of Sheet Metal Engineering, Third International Conference on Cold Extrusion (Cold Forging) of Steel, November 1965.

R. Geiger: **SOME EXAMPLES OF PRECISION MANUFACTURE BY COLD FORGING**, Industrial & Production Engineering, 1986/2.

P. Hartley, C. E. N. Sturgess & G. W. Rowe: **A PREDICTION OF THE INFLUENCE OF FRICTION IN THE RING TEST BY FINITE-ELEMENT METHOD**, 7th MAMRC, 1979.

D. N. Hawkins & G. Tsinopoulos: **EFFECT OF WARM EXTRUSION ON THE STRUCTURE AND PROPERTIES OF LOW CARBIDE STEELS**, Journal of Mechanical Working Technology, 2, 161-177, 1978.

J. B. Hawkyard & W. Johnson, **AN ANALYSIS OF THE CHANGES IN GEOMETRY OF A SHORT HOLLOW CYLINDER DURING AXIAL COMPRESSION**, International Journal of Mechanical Sciences, Vol 9 pp 163 -182, 1967.

M. Hirschvogel: **RECENT DEVELOPMENTS IN INDUSTRIAL PRACTICE OF WARM FORGING**, Journal of Mechanical Working Technology, 2, 1978.

S. C. Jain et al: **THEORY AND EXPERIMENT IN EXTRUSION FORGING**, presented at the 11th International M.T.D.R. Conference held at the University of Manchester, September 1970.

S. Kobayashi & E. G. Thomsen: **UPPER AND LOWER BOUND SOLUTIONS TO AXISYMMETRIC COMPRESSION AND EXTRUSION PROBLEMS**, International Journal of Mechanical Sciences, Vol 7 pp 127-143, 1965.

K. Kondo: **DEVELOPMENTS OF NEW PRECISION COLD DIE FORGING PROCESSES**, Advanced Technology of Plasticity, 1984.

H. Kudo: **SOME ANALYTICAL AND EXPERIMENTAL STUDIES OF AXI-SYMMETRIC COLD FORGING AND EXTRUSION**, International Journal of Mechanical Sciences, Vol 2, PP 102-127, 1960.

H. Kudo: **UPPER BOUND APPROACH TO METAL FORMING PROCESSES - TO DATE AND IN THE FUTURE**, Metal Forming & Impact Machining, Pergamon Press, 1985.

E. R. Lambert & S. Kobayashi: **A THEORY ON THE MECHANICS OF AXISYMMETRIC EXTRUSION THROUGH CONICAL DIES**, Journal Mechanical Engineering Science, Vol 10, No 5 1968.

K. Lange & E. Steck: **SOME RECENT RESULTS OF INVESTIGATIONS IN ROD, HOOKER AND CAN EXTRUSION AND UPSETTING**, Institute of Sheet Metal Engineering, Third International Conference on Cold Extrusion (Cold Forging) of Steel, November 1965.

B. Missmahl: **NEW PROGRESSIVE COLD HEADERS AND FORMING TOOLS FOR INTRICATE COMPONENTS**

A. J. Organ & P. B. Mellor: **MECHANICS OF HIGH SPEED BAR CROPPING**, Applied Mechanics Convention 1966, Published by the Institution of Mechanical Engineers.

I. Pillinger et al: **A THREE DIMENSIONAL FINITE ELEMENT ANALYSIS OF THE COLD FORGING OF A MODEL ALUMINIUM CONNECTING ROD**, Proceedings of the Institute of Mechanical Engineers, Vol 199 No C4, 1985.

H. Ll. D. Pugh & M.T. Watkins: **EXPERIMENTAL INVESTIGATION OF THE EXTRUSION OF METALS**, The Institution of Production Engineers National Conference "Modern Trends in the Manipulation of Metals, October 1960.

H. Ll. D. Pugh, M.T. Watkins & J. McKenzie: **AN EXPERIMENTAL INVESTIGATION INTO COLD EXTRUSION OF STEEL**, Sheet Metal Industries, 1961.

H. Ll. D. Pugh et al: **SOME ASPECTS OF THE COLD EXTRUSION OF STEEL**, Institute of Sheet Metal Engineering, Third International Conference on Cold Extrusion (Cold Forging) of Steel, November 1965.

J. Saga & K. Arita: **STUDY ON LEAD MONOXIDE AS LUBRICANT FOR WARM FORGING OF STEELS**, Metallurgia and Metal Forming, September 1972.

A. Shabaik & S. Kobayashi: **COMPUTER APPLICATION TO THE VISIOPLASTICITY METHOD**, Transactions of the ASME, May 1967.

K. Sieber: **ADVANCES IN THE FIELD OF COLD-FORMING IN GERMANY AND THE USA**, Wire Edition No. 26, December 1956.

K. Sieber: **TOOLING DESIGN FOR COLD FORGING**, Institute of Sheet Metal Engineering, Special Conference on Cold Extrusion, November 1965.

H. Takahashi & J. M. Alexander: **FRICTION IN THE PLANE STRAIN COMPRESSION TEST**, Journal of the Institute of Metals, 1961-62, Vol 90.

P. F. Thomason: **THE DUCTILITY OF METALS IN HEADING AND EXTRUSION PROCESSES**, The Institution of Mechanical Engineers, Applied Mechanics Group, Proceedings 1969-70, Vol 184, Part 1 No 47.

E.G. Thomsen: **FRICTION IN FORMING PROCESSES**, Annal of the C.I.R.P. Vol XVII pp 187-193, 1969.

M. T. Watkins: **COLD FORMING AND EXTRUSION OF STEEL**, Part I - Basic Principles, Part II - Properties and Tooling, Part III - Economics and Future Applications, The Institute of Metals, 1973.