

IMPACT MEASUREMENT DEVICES
(2100-2199)

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Bibliography

- 2101 Hopkinson B
A METHOD OF MEASURING THE PRESSURE PRODUCED IN THE
DETONATION OF HIGH EXPLOSIVES OR BY THE IMPACT OF
BULLETS
Transactions Royal Society of London
1914, Vol. 213A.
- 2102 Davies R M
A CRITICAL STUDY OF THE HOPKINSON PRESSURE BAR
Transactions Royal Society of London
1946-1948, Vol. 240A, p. 375.
- 2103 Bell J F
DETERMINATION OF DYNAMIC PLASTIC STRAIN THROUGH
THE USE OF DIFFRACTION GRATINGS
Journal of Applied Physics
1956, Vol. 27, pp. 1109-1113.
- A new method is given for measuring dynamic plastic strain in metals under central impact. Strain-time curves for initial and reflected wave fronts have been determined using a gauge length of 1/32 inch. The measurements are made by observing the behavior during strain of the diffracted and central images of an 8300 line reflection grating ruled on the specimen surface.
- 2104 Courtney-Pratt J S
A NEW METHOD FOR THE PHOTOGRAPHIC STUDY OF FAST
TRANSIENT PHENOMENA
Research, 1949, Vol. 2, pp. 287-293.
- 2105 Elliott K W T and Wilson D C
AN OPTICAL PROBE FOR ACCURATELY MEASURING DISPLACEMENTS OF A REFLECTING SURFACE
Journal of Scientific Instruments
1957, Vol. 34, pp. 349-352.

The probe described is capable of accurately measuring the displacement of a plane reflecting surface along its