

Experiment no.1

Objective:

To calculate the brake power of petrol engine and torque against engine speed.

Apparatus:

- Dynamometer
- Petrol engine
- Tachometer

Theory:

Dynamometer:

A dynamometer is a device for measuring force, moment of force (torque) or power.

For example, the power produced by an engine, motor or other prime mover can be calculated by simultaneously measuring torque and rotation speed (R.P.M).

There are many types of dynamometer.

- Absorption dynamometer,
- Engine dynamometer,
- Eddy current dynamometer,
- Power dynamometer,
- Hysteresis dynamometer.

Eddy current dynamometer:



Ic Engine Lab Manual

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Ic Engine Lab Manual:

Internal Combustion Engine Lab Manual Mohammad Usman Khan, Mohammad Ali Shariati, Majid Majeed, 2017-07-05
Laboratory Manual for Basic Internal Combustion Engines Laboratory James A. Brown, Norman E. Abell, 1960* Small Engine Lab Manual : for Use with Tecumseh (Craftsman) Internal Combustion Engine, Two Stroke Cycle, Needle Bearings, Vertical Shaft, Small Frame A. A. (Alvan Ariel) Stacey, R. R. (Roger Roslyn) Stacey, 1991 **Briggs Engine** A. A. (Alvan Ariel) Stacey, R. R. (Roger Roslyn) Stacey, 1990 **Briggs Engine** A. A. (Alvan Ariel) Stacey, 1998 **Lawnboy Engine** A. A. (Alvan Ariel) Stacey, 1993 Catalogue University of Wisconsin, 1930 Some nos include Announcement of courses *The University of Colorado Catalogue* University of Colorado, 1938 **Scientific and Technical Aerospace Reports** ,1987-04 **Catalogue Number** University of Colorado, 1939 *Energy Research Abstracts* ,1992 El-Hi Textbooks and Serials in Print, 1996 R R Bowker Publishing, Bowker, 1996-02 **General Catalog** University of Colorado, 1952 **Brown's Directory of American Gas Companies ...** ,1920 **Course of Study in Physical Science for the Junior High School, Grades 7, 8, and 9** New Jersey. Department of Public Instruction, 1927 **Philippine National Bibliography** ,1981 *Chemical Abstracts* ,1918 *Who's who in Engineering* ,1925 **Catalog** Oklahoma State University, 1975 **Engineering** ,1923

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