

Formulae:

$$a) \text{ Brake Power (BP)} = [2 \pi N T] / 60000 \quad \text{kw}$$

where,

$$\begin{aligned} N &= \text{Speed in rpm} \\ T &= \text{Torque in N-m} \\ &= W_{\text{net}} \times R_{\text{eff}} \\ W_{\text{net}} &= (W_1 - W_2) / 9.8 \end{aligned}$$

$$b) \text{ Fuel consumption (FC)} = [20 \times 10^{-3} \times \text{sp.gr.} \times 3600] / t \quad \text{kg / hr}$$

where,

$$\begin{aligned} t &= \text{time taken for 20 cc of fuel consumption} \\ \text{sp. gr.} &= \text{specific gravity of diesel} = 0.86 \end{aligned}$$

$$c) \text{ Specific fuel consumption (SFC)} = \text{FC} / \text{BP} \quad \text{kg / kw hr}$$

$$d) \text{ Heat input (HI)} = [\text{FC} \times \text{CV}] / 3600 \quad \text{kJ / s}$$

where,

$$\text{CV} = \text{Calorific value of diesel} = 40,500 \quad \text{kJ/kg}$$

$$e) \text{ Brake thermal efficiency, } \eta_b = [\text{BP} / \text{HI}] \times 100 \quad \%,$$

$$f) \text{ Mechanical efficiency, } \eta_{\text{mech}} = [\text{BP} / \text{IP}] \times 100 \quad \%,$$

where,

$$\begin{aligned} \text{BP} &= \text{Brake power} \quad \text{kw} \\ \text{IP} &= \text{Indicated power} \quad \text{kw} \\ &= \text{BP} + \text{FP} \\ \text{FP} &= \text{Frictional power} \quad \text{kw} \\ & \quad (\text{to be determined from "BP vs. FC" plot}) \end{aligned}$$

$$g) \text{ Indicated thermal efficiency, } \eta_i = [\text{IP} / \text{HI}] \times 100 \quad \%$$

Result:

The performance test was conducted on the given diesel engine and the following characteristic curves were drawn.

- Brake power vs. Specific fuel consumption
- Brake power vs. Mechanical efficiency
- Brake power vs. Brake thermal efficiency and
- Brake power vs. Indicated thermal efficiency.

Thermodynamics Lab Manual

K Morrison



Thermodynamics Lab Manual:

Designing and Writing the Thermodynamics Lab Manual Carol A. Reed, 1988 **Laboratory Manual for Principles of General Chemistry** Jo Allan Beran, 2010-11-01 This new edition of the Beran lab manual emphasizes chemical principles as well as techniques The manual helps students understand the timing and situations for the various techniques The Beran lab manual has long been a market leading lab manual for general chemistry Each experiment is presented with concise objectives a comprehensive list of techniques and detailed lab intros and step by step procedures Laboratory Manual for Principles of General Chemistry J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section *Thermodynamics Laboratory Manual* Hans H. VanderMeyden, 1974

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An Index to Undergraduate Science National Science Foundation (U.S.). Office of Experimental Projects and Programs,1974

A Laboratory Manual of Organic Chemistry for Beginners Arnold Frederick Holleman,1913

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Accessible Elements Dietmar Karl Kennepohl,Lawton Shaw,2010 Accessible Elements informs science educators about current practices in online and distance education distance delivered methods for laboratory coursework the requisite administrative and institutional aspects of online and distance teaching and the relevant educational theory Delivery of university level courses through online and distance education is a method of providing equal access to students seeking post secondary education Distance delivery offers practical alternatives to traditional on campus education for students limited by barriers such as classroom scheduling physical location finances or job and family commitments The growing recognition and acceptance of distance education coupled with the rapidly increasing demand for accessibility and flexible delivery of courses has made distance education a viable and popular option for many people to meet their science educational goals

Applied Learning in Higher Education: Sok Mui Lim, Yong Lim Foo, Han Tong Loh, Xudong Deng,2020

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