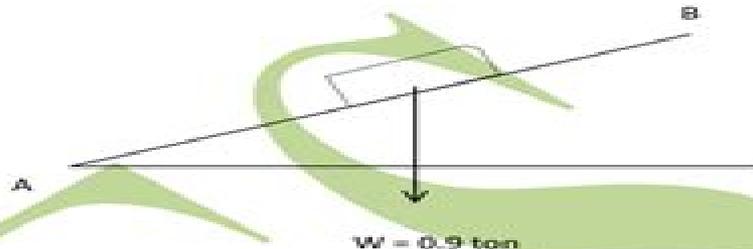


**QUESTION 1: MOTION, ENERGY AND POWER**

1.1 State the law of conservation of energy in words. (2)

1.2 A motorcar with a mass of 0,9 ton is parked on an incline AB of 1 : 20. The motorcar departs from rest at A and within 12 seconds reaches a speed of 144 km/h.

If all frictional losses are neglected, calculate:



- 1.2.1 The acceleration of the car from A to B
- 1.2.2 The pulling force of the car's engine
- 1.2.3 The length of the gradient
- 1.2.4 The power of the car's engine
- 1.2.5 The potential energy at B (5 x 2) (10)

1.3 A Gautrain experiences a tractive resistance of 280 N per 1 000 kg when it moves.  
If the Gautrain exerts a force of 80 kN when it has a mass of 40 000 kg, calculate the acceleration of the Gautrain. (4)

**[16]**

# Engineering Science N20paper 1

**American Society of Mechanical  
Engineers**



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*Japanese Journal of Applied Physics*, 2001      Alkalies: Advances in Research and Application: 2011 Edition, 2012-01-09  
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**Reprints of Papers from the Science Laboratories of the University of Sydney ...** University of Sydney, 1920

**Flue Gas Desulfurization and Industrial Minerals** M. Michael Miller, Deborah A. Kramer, G. Oliver Vagt, 1993  
Contains 4 101 references on FGD Flue Gas Desulfurization primarily from 1982 through June 1993 Complements the Flue Gas Desulfurization and Denitrification bibliography published by the U S Dept of Energy in Jan 1985 References were located on the Energy Science and Technology Pollution Abstracts and Environmental Bibliography databases Primarily covers FGD and the use of industrial minerals in the desulfurization process or in by product utilization and disposal Emphasizes post combustion removal of sulfur dioxide through processes such as in duct injection and wet and dry scrubbing

*Chemical Engineering Progress*, 2008      *Selected Papers on Optical Chaos* F. T. Arecchi, Robert G. Harrison, 1994

Digest of Technical Papers, 1984      Circulating Fluidized Bed Boilers Prabir Basu, 2015-04-07 Explains operation and scientific fundamentals of circulating fluidized bed CFB boilers Outlines practical issues in industrial use Teaches how to optimize design for maximum reliability and efficiency Discusses operating and maintenance issues and how to troubleshoot them This book provides practicing engineers and students with insight into the design and operation of circulating fluidized bed CFB boilers through a combination of theoretical concepts and practical experience An emphasis on combustion hydrodynamics heat transfer and material issues illustrates these concepts with numerous examples from actual operating plants The relevance of design and feed stock parameters to the operation of a CFB boiler are also examined along with their impacts on designs of mechanical components including cyclones air distributor grids and solid recycle systems This versatile resource explains how fluidized bed equipment works and how the basic principles of thermodynamics and fluid mechanics influence design while providing insight into planning new projects troubleshooting existing equipment and appreciating the capabilities and limitations of the process From hydrodynamics to construction and maintenance the author covers all of the essential information needed to understand design operate and maintain a complete fluidized bed system It is a must for

clean coal technology as well as for biomass power generation Bulletin of the Chemical Society of Japan Nihon Kagakkai,2009 **Japanese, Chinese, and Russian Serials in the Linda Hall Library, 15 February 1966** Linda Hall Library,1966 **Science Abstracts** ,1899 **Mechanical Engineering** American Society of Mechanical Engineers,1919 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908 **Engineering** ,1883 **Investigation of the Formation of Ammonia (NH<sub>3</sub>) and Nitrous Oxide (N<sub>2</sub>O) Emission from Light-duty Mobile Sources** Tao Huai,2004 **The British National Bibliography** Arthur James Wells,1979 *JJAP* ,2010 **The Chemical News : and Journal of Physical Science** ,1871 The Chemical News and Journal of Industrial Science ,1921 *Science and Art of Mining* ,1917 English Mechanic and World of Science ,1874

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