

NUMERICAL PROBLEMS

- Q.1 Find the area of a rectangular plate having length (21.3 ± 0.2) cm and width (9.80 ± 0.10) cm:

SOLUTION:

Area of rectangular plate = Length \times width.

$$A = (21.3 \pm 0.2) \times (9.80 \pm 0.10)$$

$$A = (21.3 \times 9.80) \pm (21.3 \times 0.10) \pm (0.20 \times 9.80) \pm (0.2 \times 0.10).$$

$$= 208.76 \pm 2.13 \pm 1.96$$

$$= 208.78 \pm 4.09$$

$$= (208.8 \pm 4.1) \text{ cm}^2.$$

$$\boxed{A = (209 \pm 4) \text{ cm}^2} \text{ Ans.}$$

- Q.2 Calculate (a) the circumference of a circle of radius 3.5cm and (b) area of a circle of radius 4.65cm:

SOLUTION:

- (a) Circumference of circle

$$S = 2\pi r$$

$$S = 2 \times 3.141 \times 3.5$$

$$\boxed{S = 21.99 \text{ cm}} \text{ Ans.}$$

- (b) Area of circle

$$A = \pi r^2$$

$$= 3.141 \times (4.65)^2$$

$$= 3.141 \times 21.6225$$

$$\boxed{A = 67.89 \text{ cm}^2} \text{ Ans.}$$

- Q.4 Find the dimension of 'C' in the equation $S = Ct^2$:

SOLUTION:

The dimension of 'S' is L.

The dimension of t is T

$$\text{Then The dimension of } C = \frac{S}{t^2} = \frac{L}{T^2}$$

$$\boxed{= L T^{-2}} \text{ Ans.}$$

- Q.5 Estimate the number of liters of gasoline used by cars in Pakistan each year (consider cars in Pakistan = 500000):

DATA:

$$\text{No. of cars} = 500000 = 5 \times 10^5$$

$$\text{Average distance/year} = 16000 \text{ km}$$

$$\text{Gasoline consumption} = 6 \text{ km/litres}$$

$$\text{No. of litre of gasoline used/year} = ?$$

SOLUTION:

$$\text{Total distance covered by all cars/year} = 5 \times 10^5 \times 16000 \\ = 8 \times 10^9 \text{ km}$$

$$\text{Gasoline consumption} = 6 \text{ km/litres}$$

$$\text{Gasoline consumption} = 1/6 \text{ litres}$$

$$\text{Gasoline consumption} = 8 \times 10^9 \text{ km} = \frac{1}{6} \times 8 \times 10^9$$

$$\boxed{\text{Gasoline consumption} = 1033 \times 10^8 \text{ litres.}}$$

First Year Physics Chapter Numerical Solves

Christian Drosten



First Year Physics Chapter Numerical Solves:

Numerical Analysis Donald Greenspan, 2018-03-05 First Published in 2018 This book is designed for a first course in numerical analysis It differs considerably from other such texts in its choice of topics **Working Method Approach for Introductory Physical Chemistry Calculations** Brian J Hathaway, Clair Murphy, Brian Murphy, 2019-05-16 A Working Method Approach for Introductory Physical Chemistry Calculations is a concise inexpensive introduction to first year chemistry that is aimed at students who are weak in chemistry or have no chemistry on entry to university Such students usually find physical chemistry the most difficult part of the chemistry course and within this section numerical problem solving is an additional difficulty The text should also be invaluable to first year intending chemists This text provides an introduction to physical chemistry and the gas laws followed by chapters on thermodynamics chemical equilibrium electrochemistry and chemical kinetics Each section involves a brief introduction followed by a representative examination question which is broken down into a proposed working method Both short multiple choice questions and related full examination type questions are included This book will prove invaluable to students who need encouragement in a logical approach to problem solving in physical chemistry teaching them to think for themselves when faced with a problem

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