

CHAPTER

02

SOLUTION

1. **Solution** : A homogeneous mixture of two or more substances is known as solution.
2. **Solute** : The substance present in smaller amount in a solution is called solute.
3. **Solvent** : The substance present in larger amount in a solution is called solvent.
4. **Binary solution** : Those solutions which contain two components are called binary solutions, e.g., salt solution, benzene and toluene.
5. **Ternary solutions** : Those solutions which contain three components are called ternary solutions, e.g., ethanol + water + acetic acid.
6. **Aqueous solution** : When solute is dissolved in water, it is called aqueous solution, e.g., sugar solution, ethanol in water.
7. **Non-aqueous solution** : When solute is dissolved in solvent other than water, it is called non-aqueous solution, e.g., iodine dissolved in alcohol (Tincture of iodine).
8. **Weight Fraction** = $\frac{\text{weight of solute}}{\text{weight of solution}}$
9. **Weight percentage**

$$= \frac{\text{weight of solute}}{\text{weight of solution}} \times 100$$

Weight of solute present in 100 grams of solution is called weight percentage

Volume of solute present in 100 ml of the solution is called volume percentage
10. **Volume percentage**

$$= \frac{\text{Volume of solute}}{\text{Volume of solution}} \times 100$$
11. **Volume Fraction** = $\frac{\text{Volume of solute}}{\text{Volume of solution}}$
12. **Molarity (M)**

$$= \frac{\text{No of moles of solute}}{\text{Volume of solution in liters}}$$

$$(\text{or}) M = \frac{W}{GMW} \times \frac{1}{V(\text{lit})}$$
13. **Molarity** = $\frac{\text{No of moles of solute}}{\text{Volume of solution in ml} \times \frac{1000}{1000}}$
14. **Molarity** = $\frac{\text{Weight of solute}}{\text{GMWt of solute}} \times \frac{1000}{V \text{ in ml}}$

$$(\text{or}) M = \frac{W}{GMW} \times \frac{1000}{V(\text{ml})}$$
15. **Weight of solute** = $\frac{M \times GMW \times V \text{ in ml}}{1000}$
16. **Molarity for dilute solutions** : $M_1 V_1 = M_2 V_2$
17. **For neutralisation reactions** : $\frac{M_1 V_1}{n_1} = \frac{M_2 V_2}{n_2}$
18. **For mixed solution molarity**

$$= \frac{M_1 V_1 + M_2 V_2 + \dots}{V_1 + V_2 + \dots}$$

Solutions Chapter

Tiffany Howe, Angela Burton



Solutions Chapter :

Global Solutions Richard Stimson, Adriaan Boiten, 2003-06-22 This new book after two years discussion among 70 members in many countries including the United States Canada Mexico United Kingdom Netherlands Poland Sweden India Pakistan Bangladesh Mali Australia and New Zealand looks at the root causes of global problems and points the way to solutions It explains the growing gap between rich and poor offers routes to greater democracy exposes the global corporate oligarchy addresses the tyranny of the banking structure details the concentrated control of media explores spiritual approaches to sustainable living and suggests solutions through civil society alternative life styles education and useful information sources Global Solutions is an impressive well researched and honest summary of our sorry global predicament which provides vehicles for achieving practical solutions John Bunzl of London England founder International Simultaneous Policy Organisation I think that humane and concerned world citizens of all faiths or none can welcome this book s commitment to our common quest for sensitive celebration of humanity and our world with justice and mature tolerance Doug Everingham former Australian Minister for Health I have to say WOW What a wonderful job you all did with it and what a treasure of resources listed at the end Lugene Trefsgger Rowan University New Jersey

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Exercises And Solutions Mohammed Hichem Mortad, 2014-02-28 The book offers a good introduction to topology through solved exercises It is mainly intended for undergraduate students Most exercises are given with detailed solutions *.NET Web Services Solutions* Kris Jamsa, 2006-10-11 *NET Web Services Solutions* offers just what its title states practical solutions to the real challenges you face as you use NET to create applications that communicate with web services and more to the point to build and deploy web services of your own By the time you're done you'll understand how the web services platform works because chapter by chapter you get all the hands on instruction detailed examples and inside advice you need to make your project succeed For example you'll learn to connect to a database using ADO NET operations carry out the exchange of binary files and extend the reach of your web service so that it touches e mail fax machines mobile devices and remote PCs You'll master techniques for making your web service available to other programs but you'll also discover ways to control its

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The JR Programming Language Ronald A. Olsson, Aaron W. Keen, 2004-07-06 JR is an extension of the Java programming language with additional concurrency mechanisms based on those in the SR Synchronizing Resources programming language The JR implementation executes on UNIX based systems Linux Mac OS X and Solaris and Windows based systems It is available free from the JR webpage This book describes the JR programming language and illustrates how it can be used to write concurrent programs for a variety of applications This text presents numerous small and large example programs The source code for all programming examples and the given parts of all programming exercises are available on the JR webpage Dr Ronald A Olsson and Dr Aaron W Keen the authors of this text are the designers and implementors of JR

Organizing Solutions for Every Quilter Carolyn Woods, 2011-03-01 A professional organizer's handy guide to creating an uncluttered inviting quilting space for yourself whether it's a small closet or a large studio This practical guide shows you how to organize and maintain your quilting space no matter what size Learn handy ways to sort and arrange all of your fabrics and supplies into easy to use stations and find actual organizing solutions from quilters studios including Alex Anderson and Diana McClun Create a calm and happy place for all your beloved fabrics books notions tools and even UFOs unfinished objects With colorful photos you'll see real examples of what makes an efficient functional and inviting quilting space You'll identify what's causing the clutter learn how to turn it into a more creative zone and find more time to do what you love quilt

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International Financial Statement Analysis Workbook Thomas R. Robinson, Elaine Henry, Wendy L. Pirie, Michael A. Broihahn, 2015-02-02 International Financial Statement Analysis provides the most up to date detail for the successful assessment of company performance and financial positions This rich clear reference covers all aspects from financial reporting mechanics and standards to understanding income and balance sheets Comprehensive guidance toward effective analysis techniques helps readers make real world use of the knowledge presented with this new third edition containing the most current standards and methods for the post crisis world Coverage includes the complete statement analysis process plus information on income tax accounting employee compensation and the impact of foreign exchange rates on the statements of multinational corporations Understand the accounting mechanics behind financial reporting Discover the differences between statements from around the world Learn how each financial statement element affects securities valuation Master analysis for clues into operations and risk characteristics International Financial Statement Analysis provides the latest rules and best practices with clarity and expert advice International Financial Statement Analysis Workbook helps busy professionals understand and apply the concepts and methodologies essential to accurate financial analysis A companion to the IFSA text this workbook offers learning objectives chapter summaries and practice problems that reinforce the practitioner oriented material to give readers the confidence they need before applying these concepts to real cases Readers will test their understanding of the standards and mechanics of financial reporting and make use of the tools and techniques described in the text This informative study guide is designed to facilitate information retention helping

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