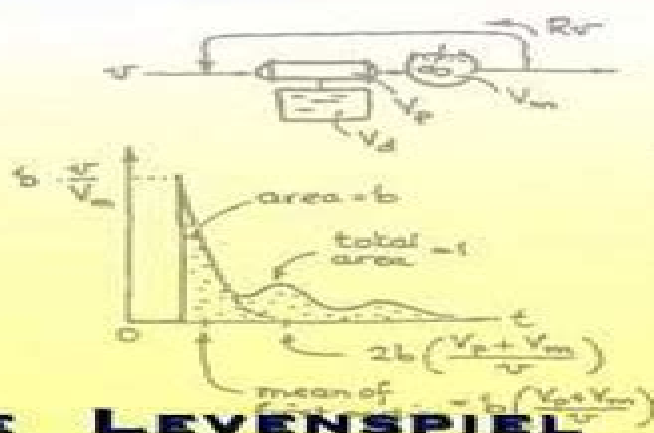
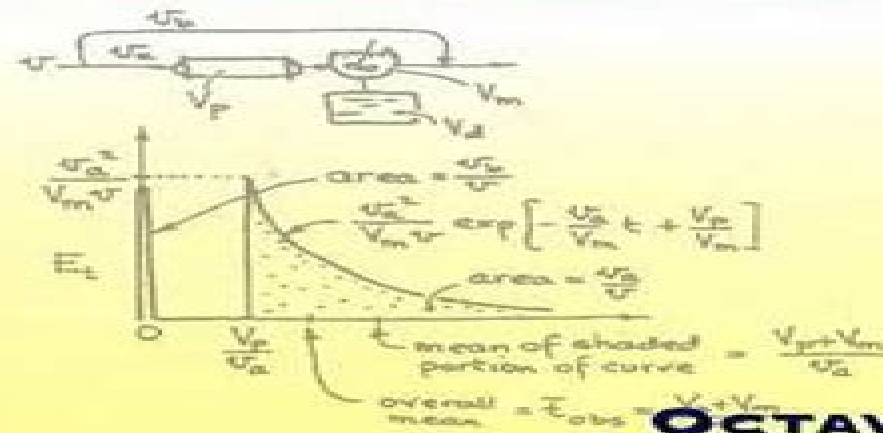


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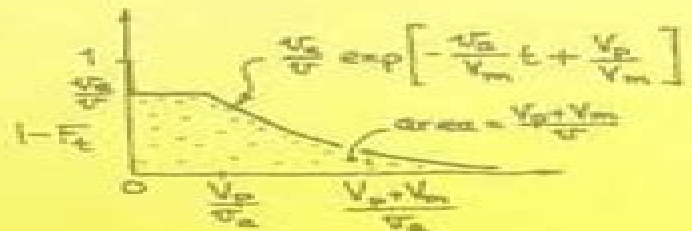
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Chemical Engineering Catalog ,1919      Chemical Engineering Thermodynamics AHUJA, PRADEEP,2008-12 This book offers a full account of thermodynamic systems in chemical engineering It provides a solid understanding of the basic concepts of the laws of thermodynamics as well as their applications with a thorough discussion of phase and chemical reaction equilibria At the outset the text explains the various key terms of thermodynamics with suitable examples and then thoroughly deals with the virial and cubic equations of state by showing the P V T pressure molar volume and temperature relation of fluids It elaborates on the first and second laws of thermodynamics and their applications with the help of numerous engineering examples The text further discusses the concepts of exergy standard property changes of chemical reactions thermodynamic property relations and fugacity The book also includes detailed discussions on residual and excess properties of mixtures various activity coefficient models local composition models and group contribution methods In addition the text focuses on vapour liquid and other phase equilibrium calculations and analyzes chemical reaction equilibria and adiabatic reaction temperature for systems with complete and incomplete conversion of reactants Key Features Includes a large number of fully worked out examples to help students master the concepts discussed Provides well graded problems with answers at the end of each chapter to test and foster students conceptual understanding of the subject The total number of solved examples and end chapter exercises in the book are over 600 Contains chapter summaries that review the major concepts covered The book is primarily designed for the undergraduate students of chemical engineering and its related disciplines such as petroleum engineering and polymer engineering It can also be useful to professionals The Solution Manual containing the complete worked out solutions to chapter end exercises and problems is available for instructors

Books in Print Supplement ,1985      **Elements of Chemical Reaction Engineering** H. Scott Fogler,2006 The Definitive Fully Updated Guide to Solving Real World Chemical Reaction Engineering Problems The fourth edition of Elements of Chemical Reaction Engineering is a completely revised version of the worldwide best selling book It combines authoritative coverage of the principles of chemical reaction engineering with an unsurpassed focus on critical thinking and creative problem solving employing open ended questions and stressing the Socratic method Clear and superbly organized it integrates text visuals and computer simulations to help readers solve even the most challenging problems through reasoning rather than by memorizing equations Thorough coverage of the fundamentals of chemical reaction engineering forms the backbone of this trusted text To enhance the transfer of core skills to real life settings three styles of problems are

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