

Chapter 9 Agitation And Mixing Michigan Technological

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Ch. 9 Agitation and Aeration

Rapid mixing (Coagulation) CHAPTER: 9 1 Assist. Prof. Bilge Alpaslan Kocamemi Marmara University Department of Environmental Engineering Istanbul, Turkey Slowmixing(Flocculation) Units. DESIGN OF RAPID MIXING (COAGULATION) UNITS Rapid mixing unit: provide complete mixing of the coagulant and rawwater.

Chapter 9 Agitation And Mixing

CHAPTER 9. AGITATION AND MIXING PRESENTATION OUTLINE-Definitions-Purposes of agitation ... DEFINITIONS • Agitation: It refers to the induced motion of a "homogenous" material in a specified way • Mixing: It is the random distribution, into and through one another, of two or more initially separate phases PURPOSES OF AGITATION

CHAPTER: 9 Design of Rapid mixing (Coagulation) Slowmixing ...

(From Fondy and Bates [1963]). :30;2 MIXING AND AGITATION 99.5 99.0 97.0 95.0 90.0 U2 o 80.0 0 70.0 or "-1 50.0 U_E -6 30.0> .> 20.0 m E = 10.00 5.0 3.0 n , , I ' ' I [] 15 sec - 9 30 sec --0 45 sec 9 V 9 60 sec -O 120 sec 9 _ 9 180 sec 9 _/k 300 sec 9 V 9 450 sec -V 2700 sec 9 V _ 9 10800sec 9 - 9 - 9 /x 9 /x 9 9 o 9 o 9 /k 9 o 9 /k 9 o vv A o o 9 vV /xAo o vV A/x 9 o 9 -vVA ZXe o 9 -vVA ...

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S. J. Chen, Bulletin, KTEK-1, The Static Mixer® Unit and Principles of Operation; KTEK-2, Pressure Drop in the Static Mixer® Unit; KTEK-3, Heat Transfer and Thermal Homogenization of Viscous Flow in the Static Mixer® Unit; KTEK-4, Radial Mixing and Residence Time Distribution in the Static Mixer® Unit; KTEK-5, Drop Formation of Low-Viscosity Fluids in the Static Mixer® Unit; KTEK-6 ...

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CHAPTER 9. AGITATION AND MIXING ???? : 1MB; Sustainable agitator and reactor design for demanding. 2017-5-17 · with tank design. Experimental test results have shown that the mixing power required for solids suspension can be significantly reduced by utilizing a novel tank bottom structure that is designed for downward pumping axial ...

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Mixing and Blending liquids, solids and gases into water and . different types of agitation Mixing Pictures In order to choose the right equipment , you need to understand the mixing needs and start the process of selection 8 3/12/2011 5 5 Application Classes Liquid Solid Liquid Gas Miscible Liquids 9 liquid

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Chapter 9 Agitation and Aeration 9.1. Introduction One of the most important factors to consider in designing a fermenter is the provision for adequate mixing of its contents.

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Mixing the movement of fluids and solids to enhance a process result is accomplished by means of an agitation source. For example, the sun is the agitation source for mixing in the earth's atmosphere. Similarly, an air compressor and/or a mechanical mixer is the agitation source in any municipal ...

Chapter 10 : Mixing and Agitation - Chapter Notes ...

Unit Operations Chapter 9. Agitation and Mixing of Liquids Ex. 9.2) A disk turbine with 6 blades in a baffled tank 2 m in diameter Turbine diameter of 0.67 m positioned 0.67 m above the tank bottom Turbine blade width of 134 mm, A depth of 2 m with a rubber-latex compound Viscosity of 120 Pa-s, Density of 1,120 kg/m³, Impeller speed of 90 rpm

CHAPTER 9. AGITATION AND MIXING PRESENTATION OUTLINE ...

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Short Term Training Programme On "Process Engineering ...

CHAPTER 9. AGITATION AND MIXING ???? : 1MB; Solution agitation and mixing ScienceDirect Cited by: 3; Agitation an overview ScienceDirect Topics. Agitation plays an essential role in the success of many chemical processes, and there is a wide range of commercially available impellers that give

optimum agitation for any process (see ...

CHAPTER 9. AGITATION AND MIXING

CHAPTER 9. AGITATION AND MIXING ABRAHAM ROGELIO MARTIN GARCIA PRESENTATION OUTLINE -Definitions -Purposes of agitation -Devices to produce agitation -Power consumption of agitators -Blending and Mixing -Suspension of solid particles -Dispersion Operations -Agitator selection and Scale up

Chapter 9 Agitation And Mixing Michigan Technological

Chapter 1. MIXING AND AGITATION Agitation is a means whereby mixing of phases can be accomplished and by which mass and heat transfer can be enhanced between phases or with external surfaces. In its most general sense, the process of mixing is concerned with all combinations of phases of which the most

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AGITATION Final Report 1. AGITATION ELECCION, NICELY JANE R. Department of Chemical Engineering College of Engineering and Architecture Cebu Institute of Technology – University N. Bacalso Ave., Cebu City 6000 In Geankoplis (2009), agitation refers to forcing a fluid by mechanical means to flow in a circulatory or other pattern inside a vessel.

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abstract on agitation on solid and liquid mixing

The chapter provides a background for the engineer who must assess and use these new contributions, reviews the extensive published literature on mixing and agitation, and presents useful results and techniques of approach that can be used to achieve understanding of many mixing situations.

Chapter 9. Agitation and Mixing of Liquids

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