CHAPTER 9. AGITATION AND MIXING

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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

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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

- Suspending solid particles
- Blending miscible liquids
- Dispersing a gas through the liquid
- Dispersing a second liquid to form an emulsion or suspension
- Promoting heat transfer

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