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Che 512 Course Notes Chapter
ChE 512 Course Notes Chapter 2 (Updated 01/05) 6 2.1.8 Dimensionless Representation It is customary to use dimensional time θ=t/t . Then the set of function defined over the θ domain are Eθ,Fθ,Iθ,Λθ. Since ()Fraction of the fluid of residence time t to t + dt = ()Fraction of the fluid of residence time θto θ+dθ Et()dt =Eθ()θdθ

ChE 512 Course Notes Chapter 2 2. CHARACTERIZATION OF ...
ChE 512 – Chapter 7 Spring 2005 1 2. Basic Notions of Mixing and Turbulence By mixing we understand the process of achieving a uniform composition by forced and random movement of fluid elements. Chemical reactions cause compositional differences in process vessels. Gross fluid motion reduces the scale over which such differences exist.

ChE 512 – Chapter 7 Spring 2005
ChE 512 – Chapter 12 Spring 2005 1 Treatment of Very Rapid Reactions - Summary of Basic Concepts We have so far considered only the situations where the characteristic reaction time is much larger than the mixing time, R mix. Now let us look at the other extreme

ChE 512 Chapter 12 - classes.engineering.wustl.edu
ChE 512 – Chapter 9 Spring 2005 1 Modeling Micromixing Effects in a CSTR CSTR, of all well behaved reactors, has the widest RTD i.e σ2 =1. This means that large differences in performance can exist between segregated flow and operations at maximum mixedness conditions. The easiest thing to treat is the case of a premixed feed.

ChE 512 – Chapter 9 Spring 2005
ChE 512 – Chapter 8 Spring 2005 3 1 V ∂ ∂t (ψ V)+ ∂ i=1 ∂ζi m ∑ (ψ Vi) +D −B = 1 V ()Qinψ in −Q outψ (2) where V i = dζi dt At steady state ∂ i=1 ∂ζi m ∑ (ψ V i) +D −B = 1 V ()Q inψ −Q outψ (3) Examples: 1. Take ζ1=α−age of fluid element m =1 steady state Qin =Qout d dα ψ dα dt +D −B = 1 V

ChE 512 – Chapter 8 Spring 2005
ChE 512 – Chapter 7A Spring 2005 7 Let us consider now the solution of eq (24a). Since the lamella is constantly shrinking in the x' direction, i.e., its thickness δ is being reduced in time, it is useful to immobilize this moving boundary by introducing new dimensionless coordinate x' z δ = (25)

Lamellar Model for Mixing and Reaction
ChE 512 – Chapter 6 Spring 2005 6 There is a forced vortex zone ()ur=ω in a range of 70% of dI and a quasi-free vortex zone 2 u rc r ω = in the outer part, for case of water. With increase in μ, rc is reduced and becomes zero at the transitional viscosity from turbulent to laminar case. The transition is a function of the power

I. Stirred Tank Reactor
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CPB 412/512 Dr. Paluch Chapter 5 Notes 2 Residual Properties We define a residual property as an actual property relative to an ideal gas at the same conditions. Let F be an arbitrary state function with independent variables x and y, then F R (x,y) = F (x,y)-F ig (x,y) (1) where the superscript " R " and "ig" correspond to the residual and ideal gas properties, respectively.

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8/26/2020 Ch 01 HW 9/12 Correct Chapter 1 Check Your Understanding Question 6 Part A What is the role of the serous membranes covering some organs? ANSWER: Correct The two serous membrane layers are separated by a cavity containing serous fluid. This fluid allows organs to slide without friction across the cavity walls and one another as they carry out their routine functions.