## A First Course on Kinetics and Reaction Engineering Unit 21. Reaction Engineering of CSTRs

## **Definitions**

steady-state (operation) - Condition where none of the variables describing a reactor are varying with time.

transient (operation) - Condition where at least one of the variables describing a reactor is varying with time.

## **Nomenclature**

au space time

V reaction volume

 $\dot{V}^0$  inlet volumetric flow rate

## **Equations**

$$\tau = \frac{V}{\dot{V}^0} \tag{21.1}$$