

Chemical Reaction Engineering I

Quiz 4

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QUESTION

An isothermal elementary gas-phase reaction is carried out in a plug flow reactor without pressure drop. The reaction is as follows;



Pure reactant enters the reactor at a pressure of 10 atm and temperature 127°C and a molar flow rate of 2.5 mol/min.

Construct stoichiometric table. Explain the method to estimate the size of the reactor



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