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Chemical Reactions and Processes under Flow Conditions (Hardback)

By -

Royal Society Of Chemistry, United Kingdom, 2010. Hardback. Condition: New. Edition. ed.. Language: English . Brand New Book ***** Print on Demand *****.Pharmaceutical and fine chemical products are typically synthesised batchwise which is an anomaly since batch processes have a series of practical and economical disadvantages. On the contrary, flow continuous processes present a series of advantages leading to new ways to synthesise chemical products. Flow processes - * enable control reaction parameters more precisely (temperature, residence time, amount of reagents and solvent etc.), leading to better reproducibility, safer and more reliable processes * can be performed more advantageously using immobilized reagents or catalysts * improve the selectivity and productivity of the process and possibly even the stability of the catalyst * offer opportunities for heat exchange and energy conservation as well as an easy separation and recycling of the reactants and products by adequate process design * achieve multistep syntheses by assembling a line of reactors with minimum or no purification in between two reaction steps * can be assured by facile automation * scale-up can be easily conducted by number-up With all the new research activity in manufacturing chemical products, this comprehensive book is very timely, as it..



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