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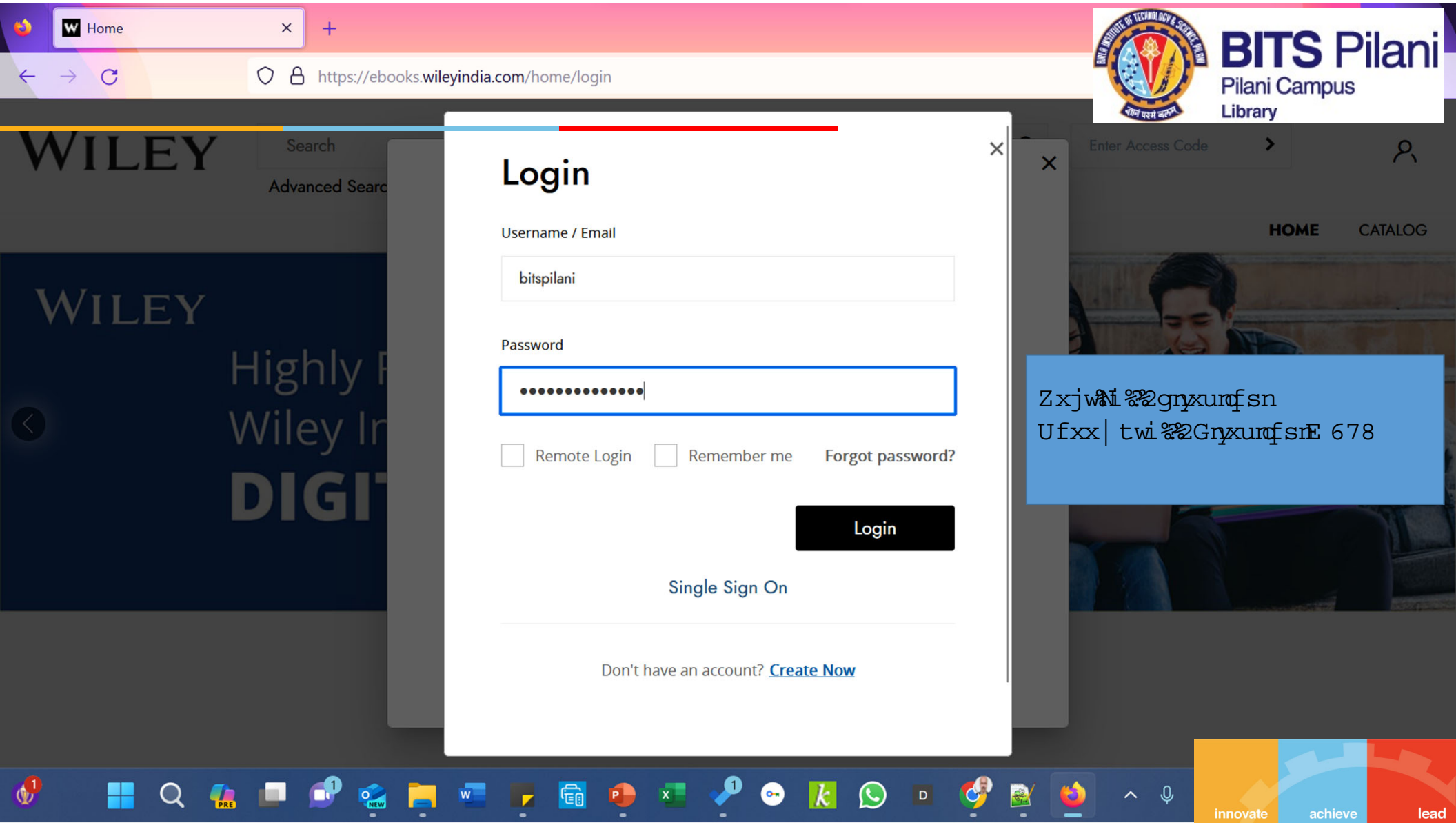
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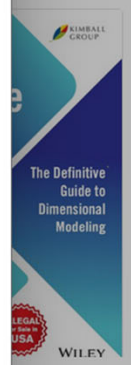

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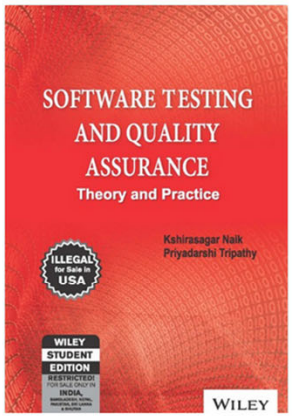

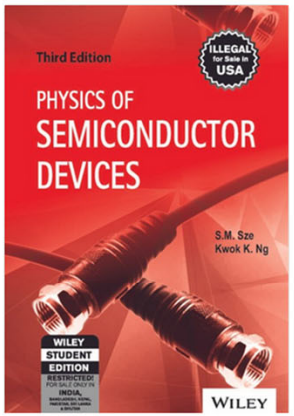

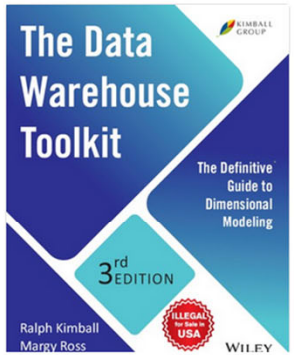

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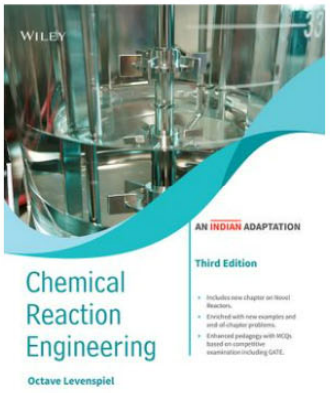

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VIEW INSIDE

Description : Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale. It's goal is the successful design and operation of chemical reactors. This text emphasizes qualitative arguments, simple design methods, graphical procedures, and frequent comparison of capabilities of the major reactor types. Simple ideas are treated first, and are then extended to the more complex.

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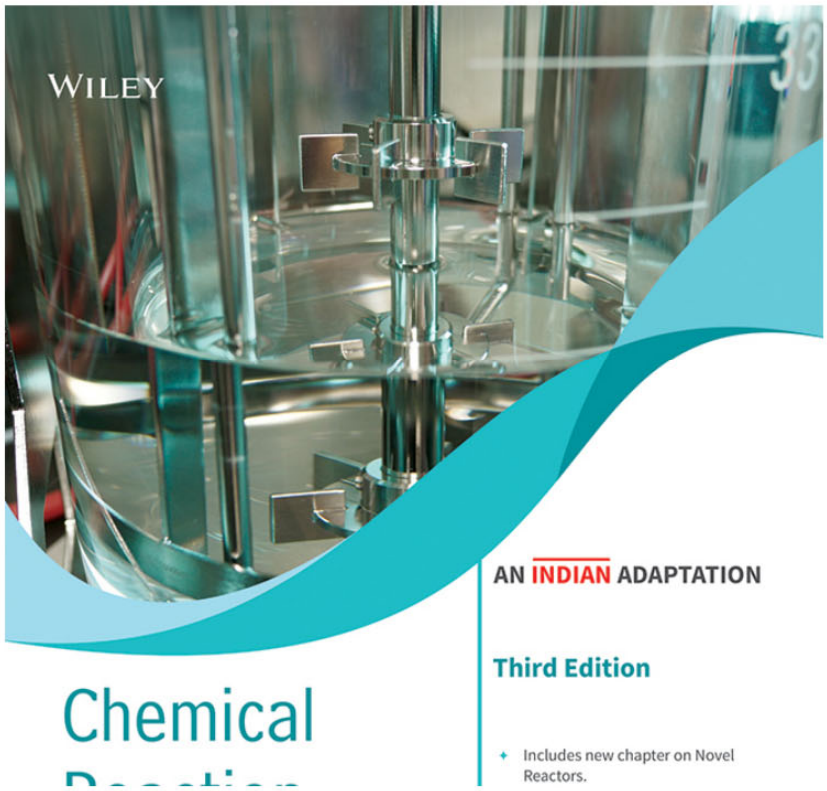

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CHAPTER 2

Kinetics of Homogeneous Reactions

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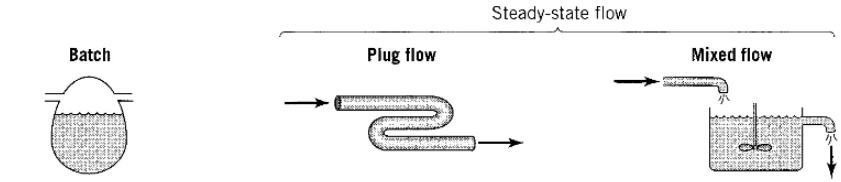
Simple Reactor Types

Ideal reactors have three ideal flow or contacting patterns. We show these in Fig. 2.1, and we very often try to make real reactors approach these ideals as closely as possible.



Batch: Uniform composition everywhere in the reactor, but of course the composition changes with time.

Plug flow: Fluid passes through the reactor with no mixing of earlier and later entering fluid, and with no overtaking. It is as if the fluid moved in single file through the reactor.

Mixed flow: Uniformly mixed, same composition everywhere, within the reactor and at the exit.