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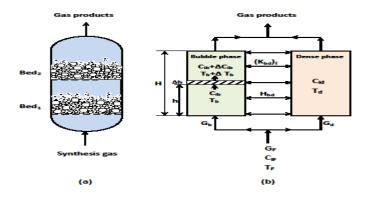
Dimethyl ether synthesis in a multi-stage fluidized bed reactor

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Graphical abstract



Highlights

- Multi-stage fluidized bed reactors are efficient for DME production.
- The direct DME synthesis process is simulated.
- The bifunctional catalyst optimal composition is identified for each bed.
- DME yield and selectivity are studied for each configuration.

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