

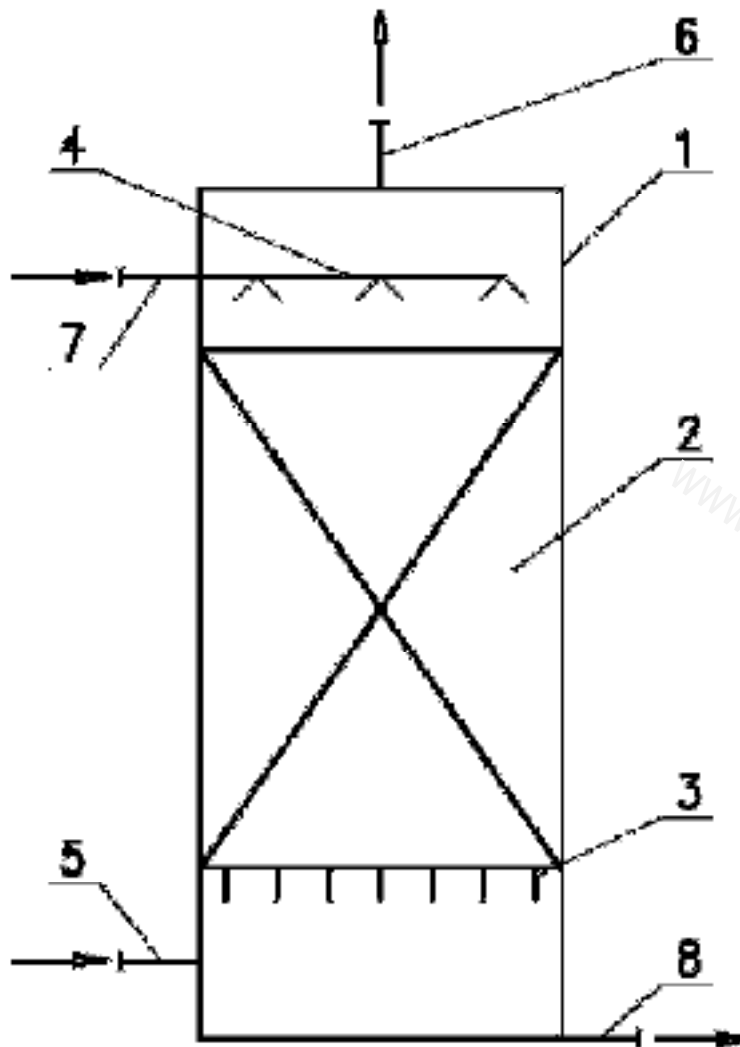
CH2407 Process Equipment Design II

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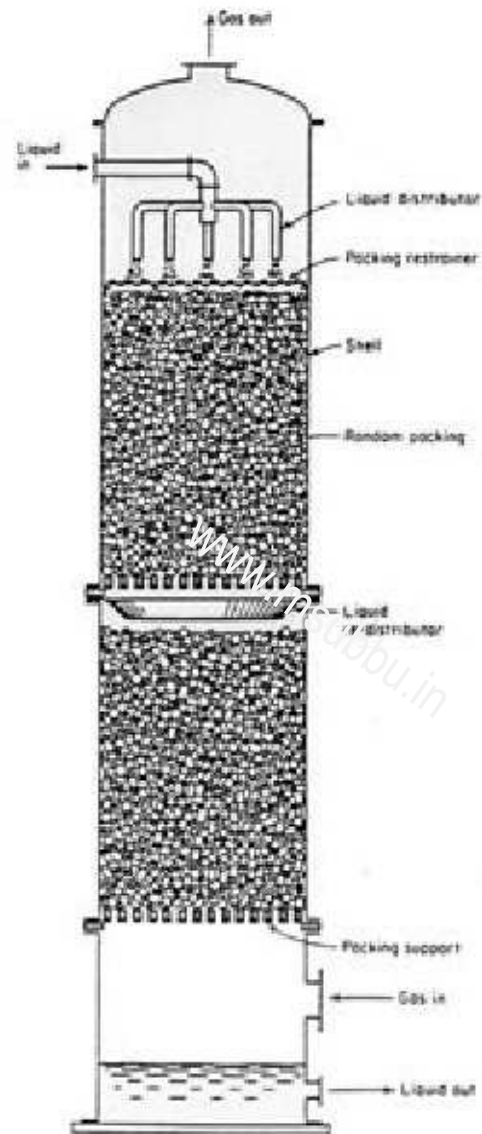
Design of Packed Column

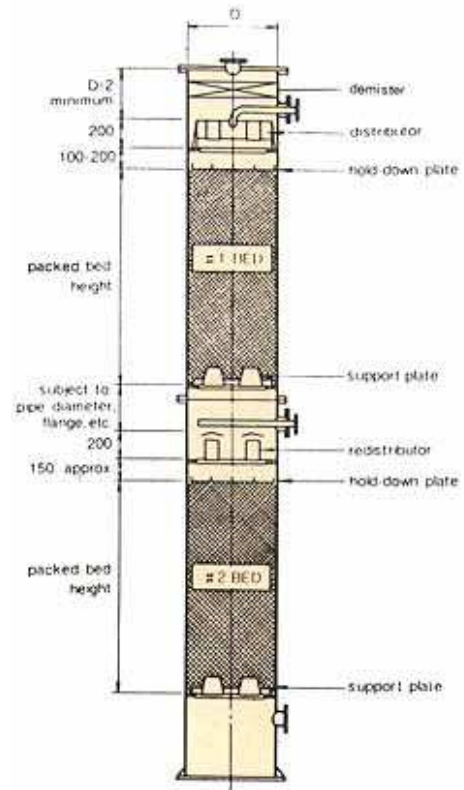
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1. Tower
2. Packing
3. Support grid, gas distributor
4. Liquid distributor
5. Gas inlet
6. Gas outlet
7. Liquid inlet
8. Liquid outlet





ORIFICE-DISTRIBUTOR



LADDER-DISTRIBUTOR



REDISTRIBUTOR

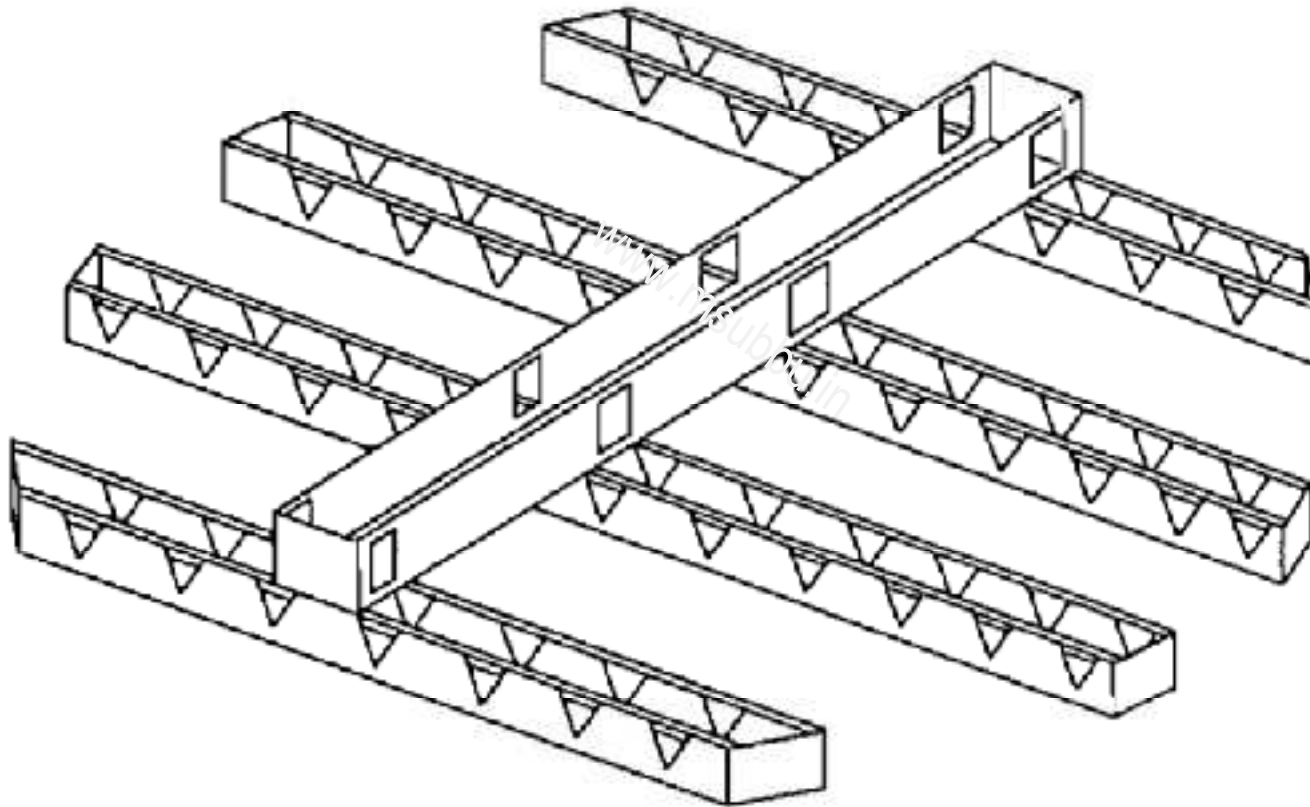


PACKING SUPPORT

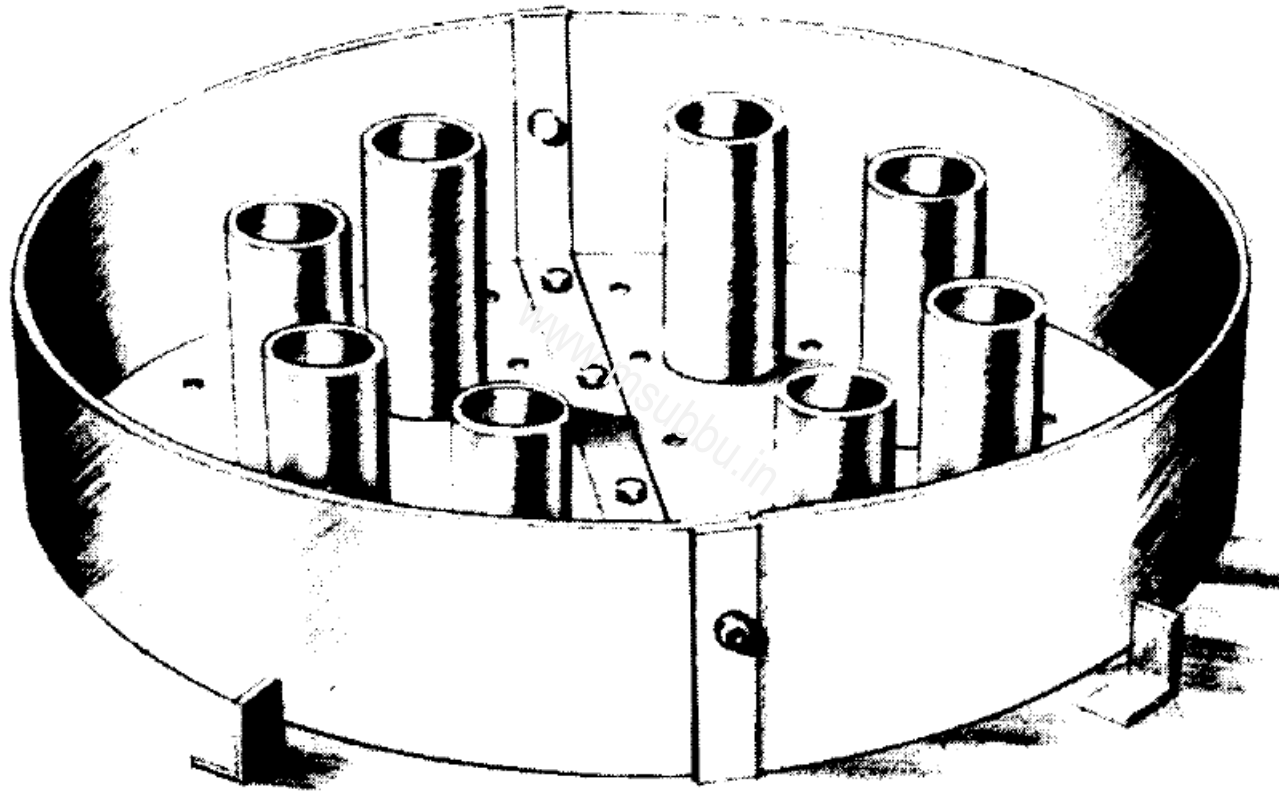


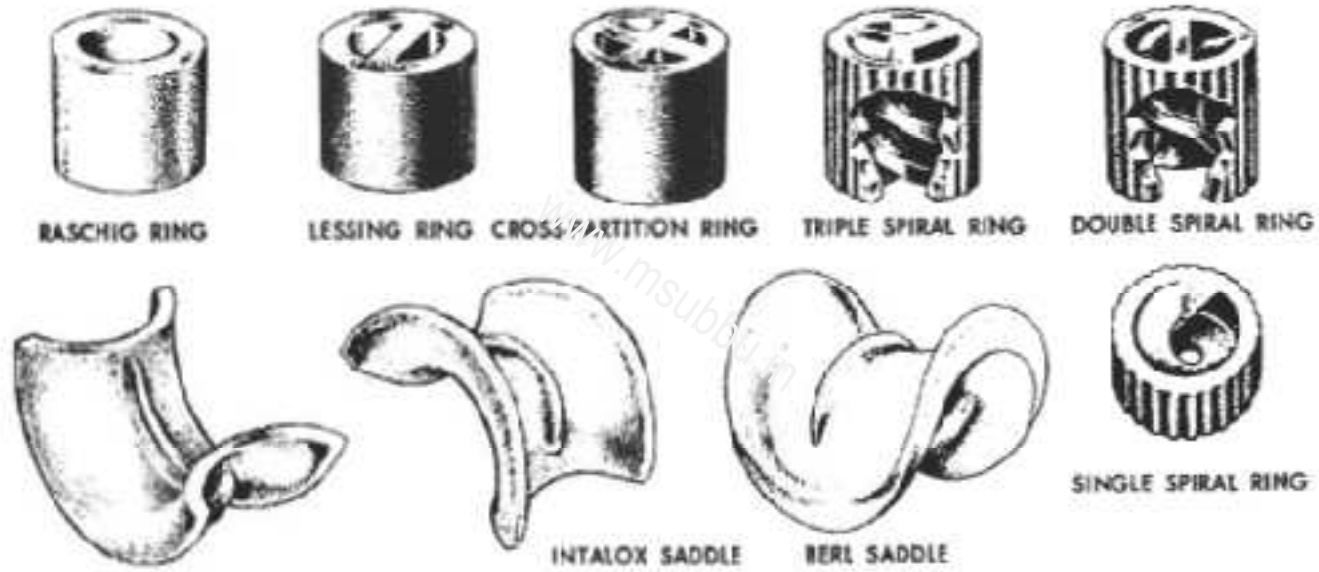
HOLD-DOWN PLATE

Weir-trough Liquid Distributor



Gas Riser

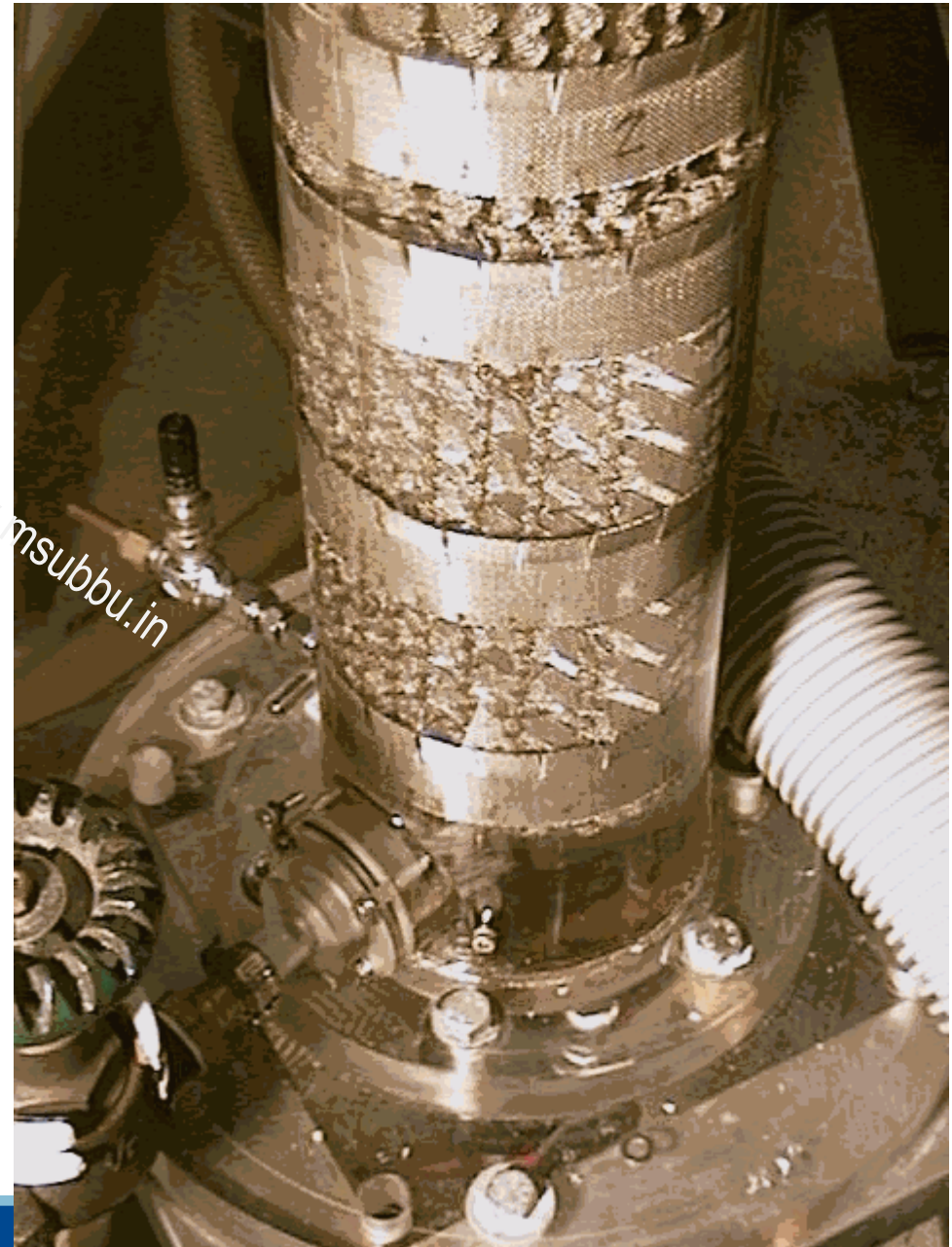
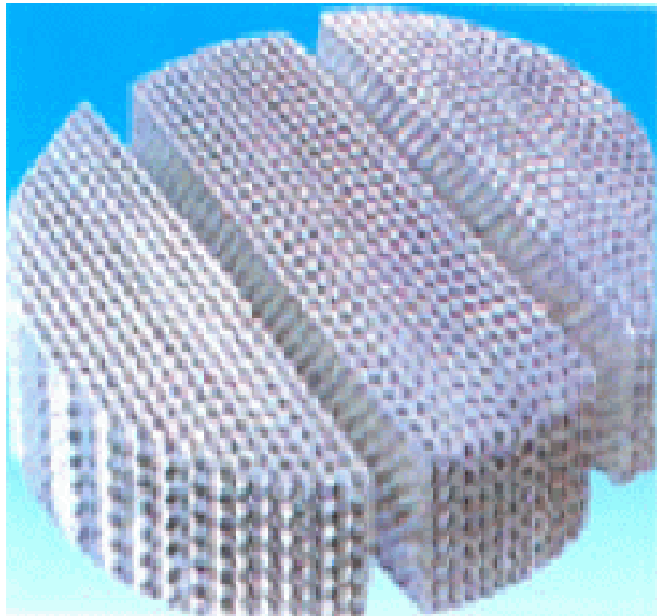








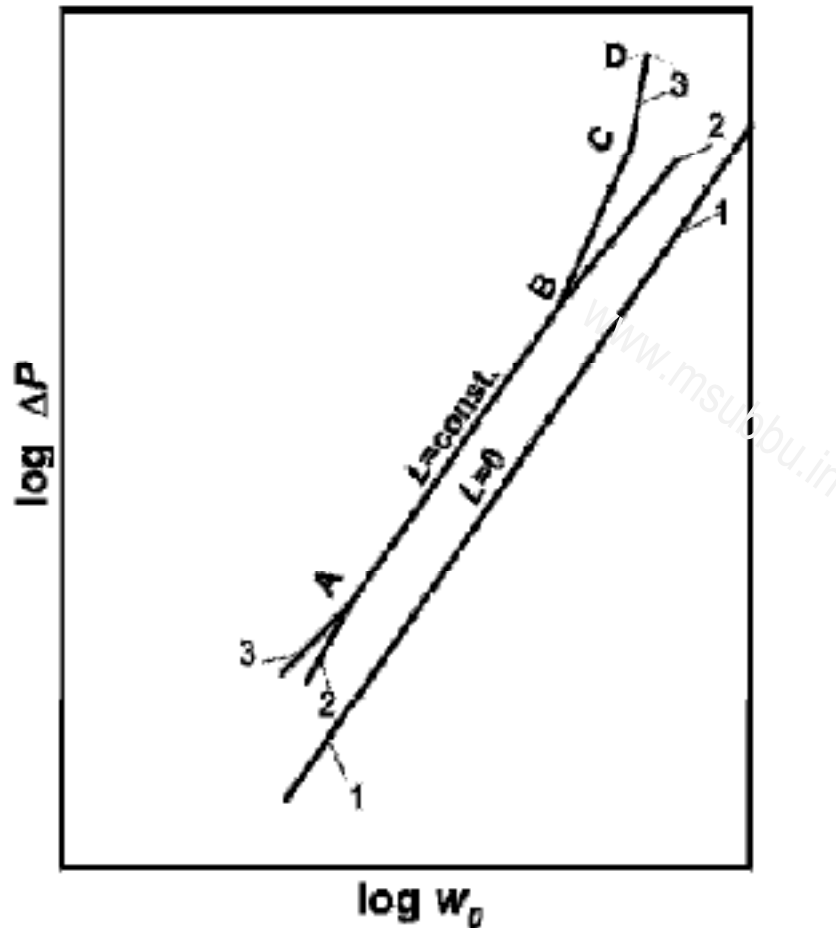
Structured Packing





Mellapak – by Sulzer Company

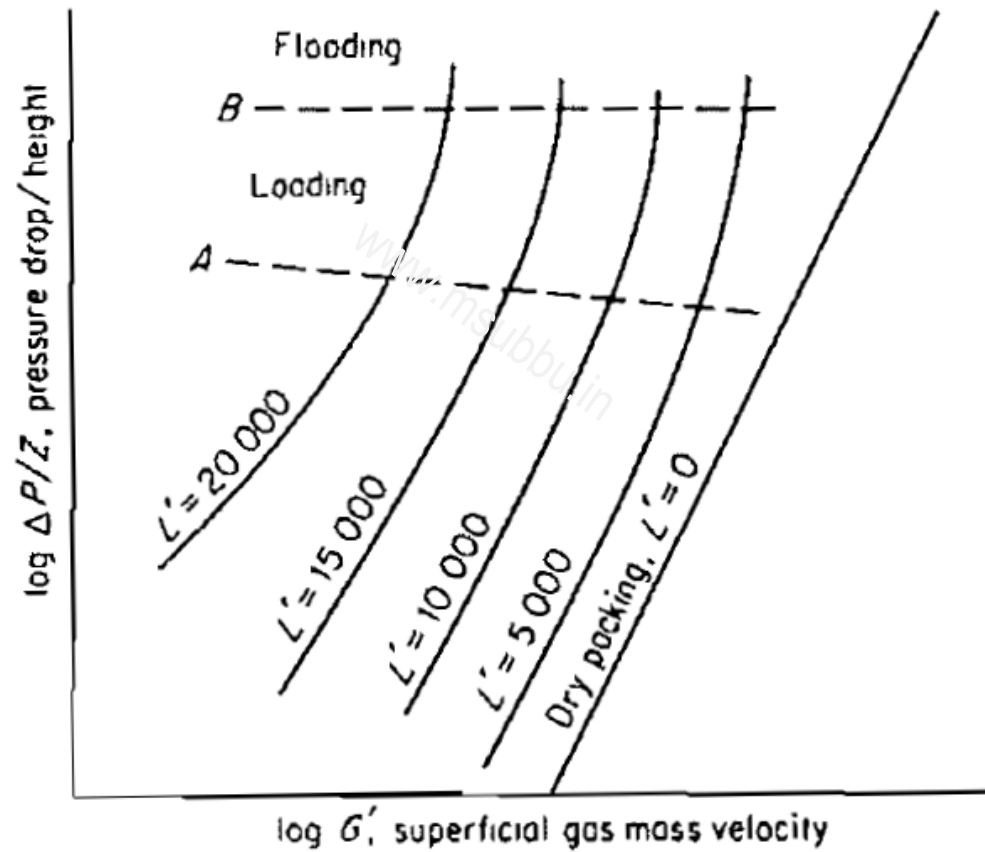
The influence of Gas velocity on Pressure Drop

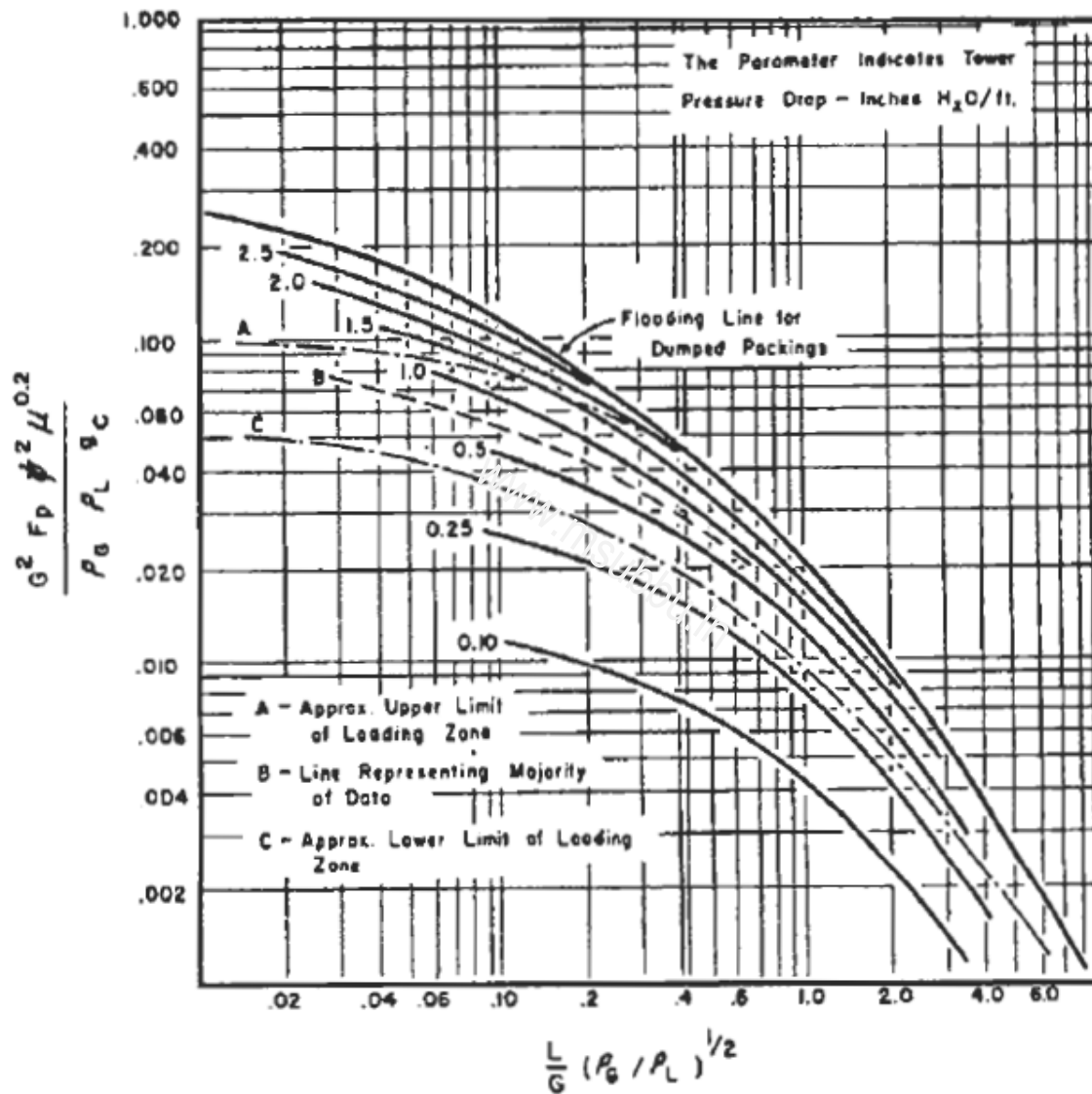


1. not irrigated packing
2. irrigated packing – co-current flow
3. irrigated packing – countercurrent flow

w_0 – superficial gas velocity

Loading and Flooding





Source: Cheremisinoff - Handbook of Chemical Processing Equipment

