

****sommaire pertinent (reconstitué)** du livre :**

****« Engineering Heat and Mass Transfer »** de Mahesh M. Rathore**

1. ****Introduction to Heat and Mass Transfer****

* Basic concepts and definitions

* Units and dimensions

2. ****Heat Conduction****

* Fourier's law

* Steady-state conduction

* Transient conduction

3. ****Convection Heat Transfer****

* Fundamentals of convection

* Forced convection

* Natural convection

4. ****Thermal Radiation****

* Radiation laws

* Radiation exchange between surfaces

5. ****Heat Exchangers****

* Types of heat exchangers

* LMTD and effectiveness-NTU methods

6. ****Boiling and Condensation****

* Pool boiling

* Film condensation

7. ****Mass Transfer Fundamentals****

* Diffusion and Fick's law

* Mass transfer coefficients

8. ****Convective Mass Transfer****

* Analogies between heat and mass transfer

9. ****Simultaneous Heat and Mass Transfer****

* Coupled processes

10. ****Applications and Industrial Problems****