

- The need for air conditioning
- Fundamental properties of air and water vapor mixtures
- The psychrometry of the air conditioning process
- Comfort and inside design conditions
- Climate and outside design conditions
- The choice of supply design decisions
- Heat gains from solar and other sources
- Cooling load
- The fundamentals of vapour compression refrigeration
- Air cooler coils
- The rejection of heat from condensers and cooling towers
- Refrigeration plant
- Automatic controls
- Vapour absorption refrigeration
- Airflow in ducts and fan performance
- Ventilation and a decay equation
- Filtration
- Index