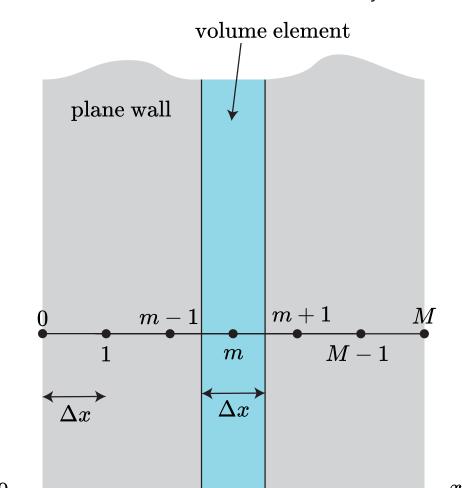
Heat Transfer

Steady heat transfer with the energy balance method

Lecturer: Jakob Hærvig

Notation for one-dimension problems

- A 1D plane wall is defined as being infinitely long (i.e. heat transfer only occurs in one direction)
- It extends from x=0 to x=L
- ullet We discretise into M nodes from m=0 to m=M
- Distance between nodes is Δx
- ullet We form a volume element around each node which naturally also has width Δx



2