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<< Index >>

Initial Conditions, Boundary Conditions

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Initial Conditions

- In steady state, initial conditions can affect rate of convergence
- Nearer the solution the better
- In transient calculations, initial conditions are critical
- Represent conditions at t=0

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Initial Conditions

- Can set initial conditions:
- Fixed value over domain
- Fixed value over initial subdomain
- From existing solution on disk
 - Grid must correspond exactly

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Index

Initial Conditions

Default initial conditions are:

Temperature at global ambient

Index

Boundary Conditions

- Boundary conditions
- At solid-fluid surfaces friction is applied as sink of momentum
- Heat transfer applied as heat source in fluid, heat sink in solid
- Resistances act as sink of momentum

Index

Boundary Conditions

Fixed flows & external fans act as sources of mass and momentum

Internal fans act as sources of momentum

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