

Flow in pipes



A lecture by
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Pipe flow in water supply



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Pipe flow in irrigation



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Pipe flow in dams



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Pipe flow in dams



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Pipes and pumps



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Pipes over rivers



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Pipes in industrial setups



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Laminar & Turbulent Flows

- Laminar flow: orderly, in layers
- Turbulent flow: disorderly, eddies
- Transitional: intermittently turbulent
- Criteria: Reynolds number
- Critical $Re = 2000$

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Flow films

- LaminarTurbulentFaucetFlow.MOV
- LaminarPipeFlow.MOV
- TurbulentPipeFlow.MOV
- TransitionalPipeFlow.MOV
- LaminarTurbulentCombo.MOV
- TurbulentFlowAroundUs.MOV

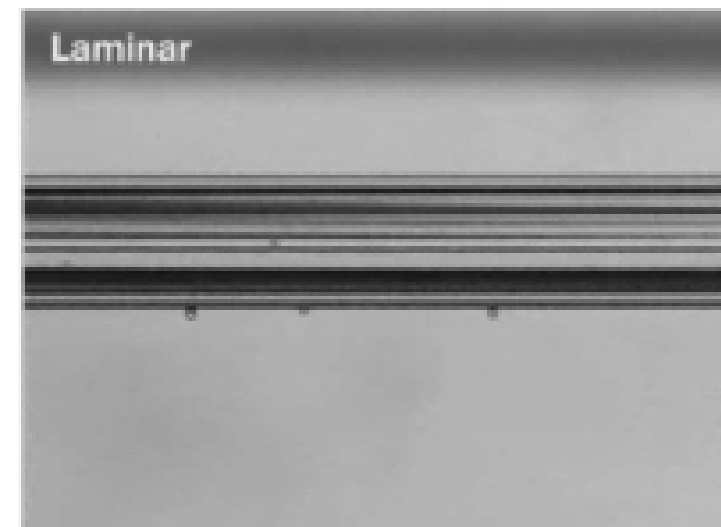
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Laminar & turbulent flow out of a faucet



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Laminar flow in a pipe



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