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1.204 Lecture 24

Approximate queuing analysis



Approximation techniques

- Three major forms of approximation
 - Graphical approximation
 - Fluid approximation
 - Diffusion approximation
- Two major system types
 - Steady flow: rush hour traffic on road or at airport
 - Pulsed flow: traffic signals, buses/trains
- Two major conditions to find approximate solutions:
 - Heavy traffic
 - Light traffic
 - These bound medium traffic, often well enough
- All of these have feasible mathematics but require skill and ingenuity to apply







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