



Safer and Better Intersections

Dr John Sampson



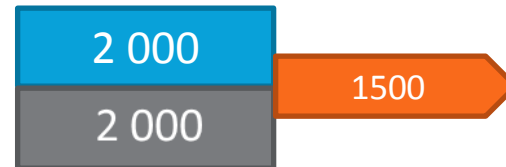
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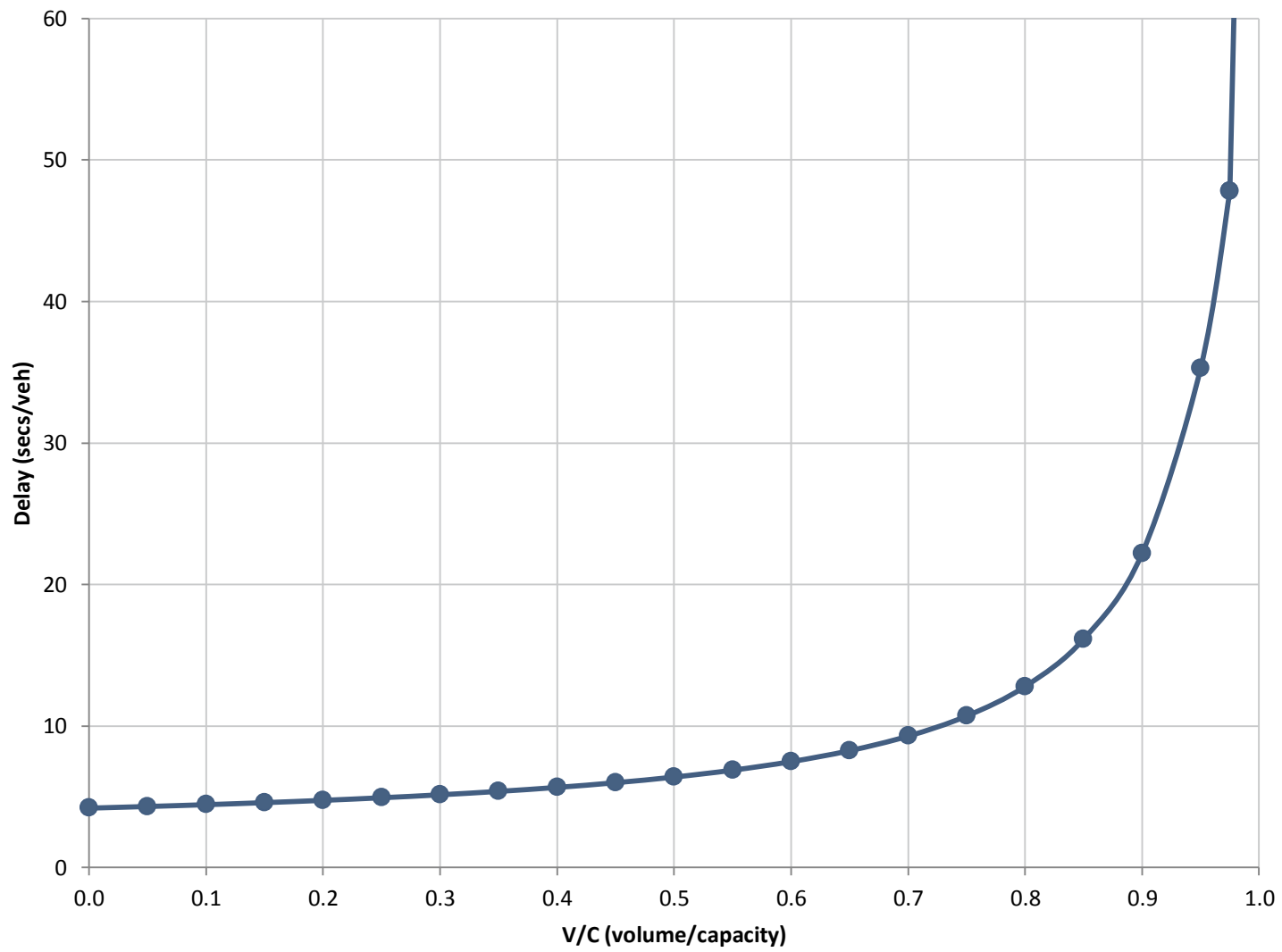


Intersection Considerations

- Capacity



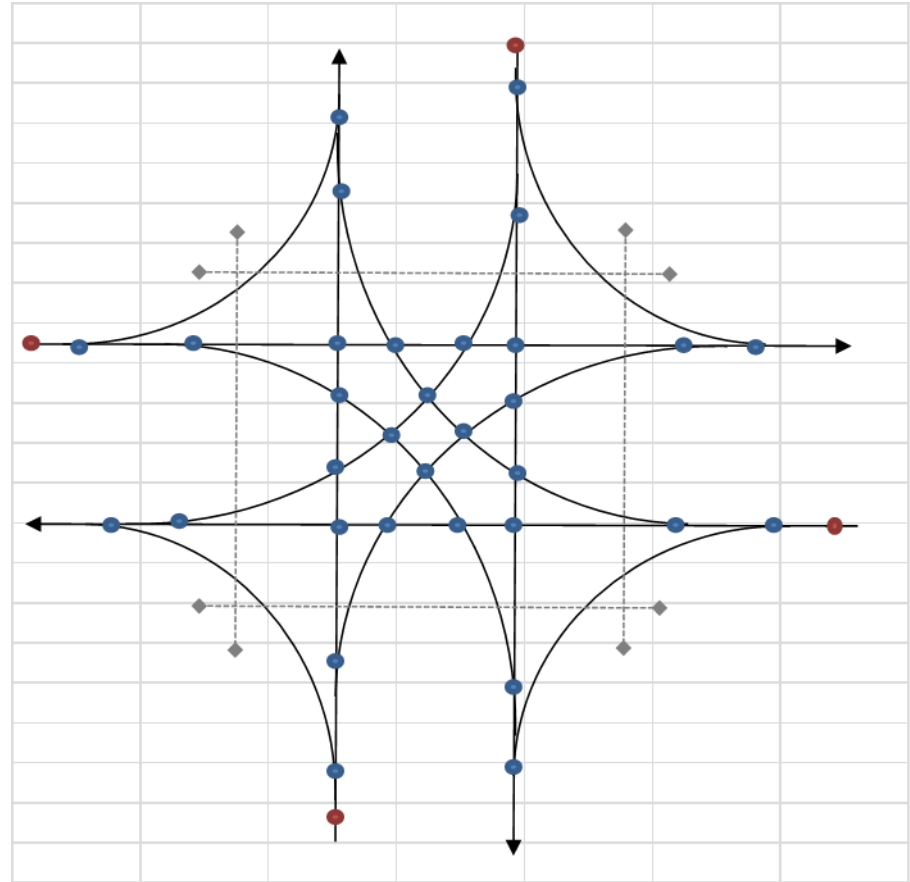
- Delay and Queues





Intersection Considerations

- Crashes
 - ✓ 32 vehicle conflicts
 - ✓ 24 pedestrian conflicts





Intersection Control Devices

- No control
- Stop or Yield
- Roundabout or mini-circle
- All-way (4-way) Stop
- Traffic Signal (21 options)



Merits of ICD's

- Capacity
 - ✓ Traffic Signals
 - ✓ Roundabouts
 - ✓ Stop
 - ✓ All-way Stop



Merits of ICD's

- Delay
- ✓ Roundabouts
- ✓ Stop
- ✓ Traffic Signals
- ✓ All-way Stop



Merits of ICD's

- Safety
 - ✓ Roundabouts
 - ✓ Stop
 - ✓ Traffic Signals
 - ✓ All-way Stop



Merits of ICD's

1. Roundabouts
2. Stop / Yield
3. Traffic Signals
4. ~~All way Stops~~



AutoJ

- Simulates all 25 ICD and signal options simultaneously
- For AM, PM and off-peak (or other) together
- For cars, heavy vehicles and pedestrians (NMT)
- Predicts future control needs
- Allows instant Traffic Impact Assessment analysis
- Draws signal timing diagrams
- Indicates optimal control choice