ECE 504

POWER SYSTEMS
STABILITY II

SESSION no.  34
Power System Analysis Tools

DynaSec PowerTools

Dynamic PowerTech of B.C. Canada

Kudler
Suit of Tools

PSAT - Power Flow & Short Circuit

USAT - Voltage Security Assessment Tool

TSAT - Transient Security Assessment Tool
(time domain analysis)
SSAT Small Signal Analysis Tool
PSAT

Power Flow & Short Circuit

Given (Project)

1) System Configuration

2) Component models

3) Limiting conditions

4) Component parameters

limits of operation
Determine (Solution)

Bus Voltages
Power Flows
Losses
<table>
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<th>Menu Bar</th>
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<th>Right Pane (or Diagram or Data Tables or Report Tables)</th>
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<tbody>
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<td>File</td>
<td>Selection</td>
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Workspace Window

1. Single Line Diagram (SLD)
2. Power Flow Data
   - Solution Report,

AC Bus
Gen
Lines
Adjust Trans.

Project | Bus Tree