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Overview TRNSYS has an extensive macro language that allows the user to write and simulate custom components for analysis. Transient models in TRNSYS can be developed in the Object Oriented Programming (OOP) style with classes that inherit from other classes. A complete simulation environment can be created from a conceptual design or from an existing design. A full transient simulation may be set up so that the user can analyze the system in the time domain, frequency domain, or both. The user can also change the distribution of the input voltage and calculate the transient response of the system, for example, by taking control of the sampling rates. TRNSYS has a graphical programming language that allows the user to create graphical model representations of the system they are designing. The user can model the system or devices in a way that they expect to be able to simulate the system in the time domain, frequency domain, or both. Example The following code is an example of a TRNSYS system in which a pulse is delivered to a transfer capacitor and back to ground. This causes a transient voltage to appear on the d-c bus.

```
class pulseTransient : public transient { transient.deliver_transient(pulse); }; class test : public system { transient.deliver_transient(pulseTransient); const transient::vout* out_voltage; transient::vout* out_voltage_ac; transient::vout* out_voltage_dc; transient::vout* out_voltage_ac_differential; transient::vout* out_voltage_dc_differential; transient::vout* out_voltage_triac; transient::vout* out_voltage_triac_differential; transient::vout* out_voltage_triac_pulse; transient::vout* out_voltage_dc_pulse; transient::vout* out_voltage_ac_pulse; transient::vout* out_voltage_triac
```

TRNSYS (pronounced "transition") is an extremely flexible graphical programming environment used to simulate the behavior of transient systems. Unlike more widely used simulation tools, TRNSYS does not use a vector format, and therefore it is much more convenient to use it in conjunction with software tools to implement various computational methods, especially with vector-pipeline and matrix-pipeline. At the same time, TRNSYS contains a number of built-in computational methods, such as the Euler method, which do not have a vector prototype, which can be used to simulate real physical problems fffad4f19a

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