This description is not valid for Model analog interface and
conservative-law systems

Consider a junction between

be a complete and minimal set of Kirchhoff’s equations describing the
be the voltage and current vector, respectively, and:

where the template parameter \( T \) specifies the nature of the domain.

**SystemC-WMS class mapping**

The channel \( f_{\text{signal}} \) does the real computation of the scattering that
occurs at junctions, and a template base class \( \text{wave_modul}e \) takes care of handling sensitivity lists and port declarations on the user’s behalf.

**Implementation of Linear Components**

State-space description in wave quantities follows directly from “traditional” description by variable substitution:

- \( R \)
- \( \sqrt{R} \cdot \text{int} \)
- \( \text{state vector} \) contains conservative quantities:
  - \( \text{a} \rightarrow \text{L} \) (magnetic flux), \( \text{b} \rightarrow \text{C} \) (electric charge)

**SystemC-WMS home page**

http://www.deit.univpm.it/systemc-wms