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Sommario/riassunto	SystemC-AMS allows the modeling of complex heterogeneous systems at different levels of abstraction using different modeling styles, called Models of Computation (MoC). This work presents an approach for including energy consumption information in high-level modeling of linear electrical circuits described using the SystemC-AMS Linear Signal Flow (LSF) MoC. The method introduced here proposes to start from a description of the system at a low level of abstraction, which is a description using the SystemC-AMS Electrical Linear Network (ELN) MoC or a SPICE netlist. The following steps of the proposed approach automatically extract the state space representation corresponding to the analyzed circuit. During the state space representation extraction, the supply current signal is regarded as an output of the state space representation. This output allows an instantaneous monitoring of the power consumption of the system at the LSF description level. The case study that we present as a proof of the proposed approach is a passive fourth-order low pass filter.