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(54) Title: SIGNAL GENERATOR FOR MODELLING DYNAMICAL SYSTEM BEHAVIOUR

(57) Abstract

A signal generator implements a dynamic behaviour described by differential equations specifying a predetermined functional relationship. The generator includes a mapping section for mapping inputs onto outputs according to a mathematical correspondence, differentiating means at selective ones of the inputs for providing time-derivatives, and a feedback path for selectively coupling outputs to inputs, either directly or via the differentiating means. The feedback path and differentiating means constrain the mapping and establish aforesaid relationship.

