Structured Electronics Design and SLiCAP

On what it is based	What do you do	Use SLiCAP
A structured design method helps you to define when what to do	Define the (next) design problem	Create a pytho design proble
A structured design method helps you with orthogonolization of your design	Define relevant performance parameters and cost factors for the solution and derive child-level budgets for these performance parameters and costs factors from parent-level budgets	Store budgets design databa
A structured design method helps you to create circuit concepts	Define solutions for the design problem (concepts and possible implementations)	Put drawings
Relevant design parameters follow from the physical operation and its technological implementation in electronic devices	Define design parameters of these implementations to be determined	Define symbo
A structured design method helps you to define circuit models Albert Einstein: "Everything should be made as simple as possibe, but not simpler" G.P. Box: "All models are wrong, but some are useful"	Create network models of solutions (simple but complete enough) that relate relevant performance parameters and cost factors to these design parameters	Create a KiCAI with SLiCAP sy generate a cir
Keep the number of symbolic parameters in expressions as small as possible	Import values of design parameters defined at an ealier stage	Import param and assign the
Circuit performance analysis is what we learned at school	Yield expressions that relate performance parameters and/or cost factors to design parameters of interest	Perform one o symbolic/num
Determine ranges rather than valid values for design parameter of interest	Solve these expressions for assigned performance and/or cost budgets	Use a sympy o numeric value between desig in the databas
Only take design decisions if necessary	Select values for design parameters	Let the design and store the

on script for each em to solve

and target values in a ase

and text in your design document

lic variables

D schematic ymbols and rcuit object from it

neter values from the database em to circuit parameters

out of 16 predefined mixed neric analysis types

or numpy solvers to obtain es, ranges of values or relations gn parameters and store them se

ner assign (input) final values em in the database