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A combined research approach to improve design processes by optimal structuring of knowledge.

CHALLENGES

Nowadays, complex product development processes face the challenge of including novel technologies and require new understanding of phenomena. New product knowledge requires accurate prediction of product behavior based on the fundamental laws of physics (step 1): from fundamental principles to analysis methods.

The next step is to integrate this new knowledge into the existing design processes (step 2): from analysis methods to design processes.

Finally, the design activities on multiple levels of abstraction require an efficient strategy to result in development processes that are both faster and better than the competition (step 3): from design processes to design strategies.



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