Process grammar: the basis of morphology

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Abstrak

This book demonstrates the following, the process grammar invents several entirely new concepts in biological morphology and manufacturing design, and shows that these concepts are fundamentally important to biological morphology and manufacturing design. Conventional morphological theories have entirely failed to recognize these important concepts. The process grammar has process-inference rules that give, to morphological transitions, powerful causal explanations that have never been given before in other morphological theories. Remarkably, the book gives a profound unification of biological morphology and vehicle design. The book invents over 30 new CAD operations that realize fundamentally important functions of a product. A crucial fact is that the process grammar is an example of the laws in Leyton's generative theory of shape which give the ability to recover the design intents for which the shape features of a CAD model were created. The book demonstrates that the process grammar recovers important design intents in biological morphology and manufacturing design. In large-scale manufacturing systems, the recovery of design intents is important for solving the interoperability problem and product lifecycle management. This book is one of a series of books in Springer that elaborates Leyton's generative theory of shape.