Information Technology

Synthesis Of A Two-Scale Structure With Anisotropy

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The Invention

A method includes generating a plurality of reference neighborhoods from a sample material structure. Tensors are determined for each of the plurality of reference neighborhoods associated with a material property. A neighborhood orientation is determined for each of the reference neighborhoods based on the tensors. A plurality of target neighborhoods are defined for a target structure. Each target neighborhood has a target orientation associated with the material property. A synthesized structure corresponding to the target structure is generated by selecting a reference neighborhood for each target neighborhood having a neighborhood orientation matching the target orientation.

Additional Information

For More Information About the Inventors

- Vadim Shapiro

Tech Fields

- Information Technology : Computing methods, software & machine learning

For current licensing status, please contact Emily Bauer at emily@warf.org or 608-960-9842