Walled Lidinoid TPMS Lattice

nTopology

Author: Christopher Cho
Date Created: 2021/04/05
Version Last Modified: 2.30.2
Current Block Version: 1.0.0
Toolkit: Osseointegrative Structures
Category: Structure Generation

Lattice Design Space *(Implicit)*
Unit Cell Size *(Vector)* ——————————→ Walled Lidinoid TPMS Lattice *(Implicit)*
Wall Thickness *(Real Field)*

Description

Generates a walled Lidinoid TPMS structure within the lattice design space. The walled Lidinoid TPMS structure is truncated by the input lattice design space, ensuring that no portion of the lattice structure exists outside of the lattice design space.

Input Descriptions

Lattice Design Space	*Volume to be filled with a walled Lidinoid TPMS ordered lattice.*
Unit Cell Size	*Desired size of the unit cells in the X, Y, and Z dimensions.*
Wall Thickness	*Target approximate wall thickness distribution of the lattice structure.*