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kinetiX—designing auxetic-inspired deformable material structures **Auxetic MetaMaterials**
Design of Hinged 3D Auxetic Mechanisms – Henry Segerman

Negative Poisson's Ratio (Auxetic) Materials
Auxetics: Applications and Possibilities

Auxetic structures research - Tamar Re
Entrant Auxetic Structure + ABAQUS Simulation
3D Printing Auxetic Materials | Two Minute

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Papers #96 *Material Science: Auxetics 2019*

Van Horn Distinguished Lectures: 2: the

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Principles and Software *NS Honeycombs*

Demonstration Rapid Deployment of Curved

Surfaces via Programmable Auxetics (SIGGRAPH

2018) Metamaterial Textures (CHI 2018) Beyond

Developable: Computational Design and

Fabrication with Auxetic Materials (SIGGRAPH

2016) Jitterbox The most powerful, FREE mesh

editing tools for 3D Printing in 2020

Hyperbolic Paraboloid GridShell in Bamboo

Princeton class in German thin-shell

structures yields new exhibit \"Breathing

Facade\" by 3D Printed Auxetic Pattern with

Shape Memory Polymer (SMP) Mechanical

Characterization of Structured Sheet

Materials Introduction of Auxetic Material

Making auxetic materials using soft

lithography 2020 UWM Three Minute Thesis

Finals Brittany Mark, Translate Auxetic

Structure Theory into AM Multimaterial

Performative Geometries Rebirth of Materials

+ Shubhi Sachan + TEDxChandigarh Discrete

Differential Geometry and Developability On

the auxetic behaviour of metamaterials with

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Engineering Lim

Dr. T.C. Lim earned his PhD in the area of material mechanics in 2001, and thereafter

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pioneered auxetic solids research in Asia. In addition to being Asia's leading researcher in the area of auxetic solids, Dr. Lim is also a pioneer and one of the world leaders in the area of semi-auxetics.

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Auxetic Materials and Structures | Teik-Cheng Lim | Springer. Engineering Materials. The first auxetics monograph that is authored by a single author. Deals with the mechanics and structural design of materials with a negative Poisson's ratio. From simple examples, complex case studies are built up in a pedagogical way.

Auxetic Materials and Structures | Teik-Cheng Lim | Springer

Introduction. This book describes the fundamentals of the mechanics and design of auxetic solids and structures, which possess a negative Poisson's ratio. It will benefit

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two groups of readers: (a) industry practitioners, such as product and structural designers, who need to control mechanical stress distributions using auxetic materials, and (b) academic researchers and students who intend to produce structures with unique mechanical and other physical properties using auxetic materials.

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Metamaterials are structures that exhibit unique characteristics due to alterations made at the microstructural level thus affecting the macrostructural behavior. In

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the case of auxetic metamaterials, these changes are made to the structure's geometrical configurations. Auxetics have a negative Poisson's ratio, i.e. they display lateral expansion upon longitudinal loading and contract in all directions when compressed.

Modelling of auxetic materials | Research groups ...

Mechanical properties of materials are important for engineering applications. In addition, Poisson's ratio is one of the important mechanical properties in terms of shear strength and modulus of...

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Description. This book lays down the foundation on the mechanics and design of auxetic solids and structures, solids that possess negative Poisson's ratio. It will benefit two groups of readers: (a) industry practitioners, such as product and structural designers, who need to control mechanical stress distributions using auxetic materials, and (b) academic researchers and students who intend to produce unique mechanical and other physical properties of structures using auxetic materials.

Auxetic Materials and Structures : Teik-Cheng Lim ...

Lim TC (2016) A 3D auxetic material based on

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intersecting double arrowheads. Phys Status Solidi B 253 (7):1252-1260 Google Scholar.
Lim TC (2017a) Auxetic and negative thermal expansion structure based on interconnected array of rings and sliding rods. Phys Status Solidi B 254 (12):1600775 Google Scholar.

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