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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 Papers #96** *Material Science: Auxetics* **2019 Van Horn Distinguished Lectures: 2: the materials genome** **Auxetic Materials** Digital Image Correlation (DIC): Overview of Principles and Software *NS Honeycombs Demonstration* ~~Rapid Deployment of Curved Surfaces via Programmable Auxetics (SIGGRAPH 2018)~~ Metamaterial

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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 re entrant cell structures **Electronics Nanoelectronics Devices and Materials mod12lec39** Auxetic Materials Structures Engineering Lim

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

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 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 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 ...
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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.

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