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Auxetic Materials and Structures | Teik-Cheng Lim | Springer

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 Consists of case studies with direct applicability to the

Auxetic Materials and Structures, Book by Teik-cheng 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.

Auxetics - Wikipedia

Auxetics are structures or materials that have a negative Poisson's ratio. When stretched, they become thicker perpendicular to the applied force. This occurs due to their particular internal structure and the way this deforms when the sample is uniaxially loaded. Auxetics can be single (PDF) Auxetic metamaterials and structures: A review In particular, metallic auxetic materials and a methodology for generating 3D metallic auxetic materials are reviewed in details. Although most of the literature mentions that auxetic materials

Auxetic metamaterials and structures: a review - IOPscience

The previous works of auxetics are extensively reviewed, including different auxetic cellular models, naturally observed auxetic behaviour, different desirable properties of auxetics, and potential applications. In particular, metallic auxetic materials and a methodology for generating 3D metallic auxetic materials are reviewed in details. Although most of the literature mentions that auxetic

Auxetic Materials and Structures | springerprofessional.de

Auxetic materials are solids that possess negative Poisson's ratio. This chapter introduces the reader to the definition of Poisson's ratio and its historical development.

Auxetic Materials and Structures - Kobo.com

Read "Auxetic Materials and Structures" by Teik-Cheng Lim with Rakuten Kobo. This book lays down the foundation on the mechanics and design of auxetic solids and structures, solids that possess neg (PDF) A review on auxetic structures and polymeric

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materials

Auxetic polymeric materials are a special kind of materials that exhibit negative Poisson's ratio (NPR) effect. They get fatter when stretched and thinner when compressed.

Auxetic behavior is a

Auxetic Materials Intro: Professor Andrew Alderson Interview

Professor Andrew Alderson, Principle Research Fellow at the Materials and Engineering Research Institute (MERI) at Sheffield Hallam University, talks to AZoM.com about his work with Auxetic Materials, including applications and the future of their development.

Seeing auxetic materials from the mechanics point of view ...

Highlights This review puts emphasis on their aspects of mechanics and computations. Auxetic materials are technologically and theoretically important and fascinating. Up until now, the research has been dominated by periodic/ordered microstructures. The future is with disordered microstructures using homogenization method.

(PDF) Auxetic materials A review - ResearchGate

Auxetic materials are endowed with a behavior that contradicts common sense, when subjected to an axial tensile load they increase their transverse dimension.

A triumph of lateral thought - Massachusetts Institute of ...

auxetic materials. 1 When stretched lengthways, these materials get fatter rather than thinner (see Figure 1). As well as this unique characteristic, auxetic materials have enhanced mechanical and physical properties, which means that they can actually be classified as both structural and functional materials. The key to auxetic behaviour is a value known as Poisson's ratio. This is

Biological materials: Structure and mechanical properties

Biological materials: Structure and mechanical properties
Marc Andre Meyers ¹, Po-Yu Chen, Albert Yu-Min Lin, Yasuaki Seki
Materials Science and Engineering Program,
Department of Mechanical and Aerospace Engineering,

EECS2011E 3.0A Fundamentals of Data Structures [EECS2011E]

This course discusses the fundamental data structures commonly used in the design of algorithms. At the end of this course, students will know the classical data structures, and master the use of abstraction, specification and program construction using modules.