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tioned multiscale hierarchical architectures providing both intrinsic and extrinsic fracture resistance mechanisms (Ritchie, 2011; Zimmermann et al., 2015). Strength typically originates from small length scales (sub-micrometer) in the hierarchical structure, where organic polymers or proteins (e.g., collagen, cellulose, keratin) assemble into ...

Multiscale structure and damage tolerance of coconut shells

Intrinsic Multiscale Structure and Dynamics in Complex Electronic Oxides Proceedings of the Workshop the Abdus Salm International Centre for Theoret There is considerable interest in the intrinsically multiscale structure and dynamics of complex electronic oxides especially since these materials include those of technological importance such as.

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S. J. L. BILLINGE (2003) STRAIN, NANO-PHASE SEPARATION, MULTI-SCALE STRUCTURES AND FUNCTION OF ADVANCED MATERIALS. Intrinsic Multiscale Structure and Dynamics in Complex Electronic Oxides: pp. 25-40.

Intrinsic Multiscale Structure and Dynamics in Complex

Proceedings of the workshop, Intrinsic Multiscale Structure and Dynamics in Complex Electronic Oxides : the Abdus Salam International Centre for Theoretical Physics, 1-4 July 2002 editors, A.R. Bishop, S.R. Shenoy, S. Sridhar.

Proceedings of the workshop, Intrinsic Multiscale

Practical and Intrinsic Predictability of Multiscale Weather and Convectively Coupled Equatorial Waves during the Active Phase of an MJO YUE YING AND FUQING ZHANG Department of Meteorology and Atmospheric Science, and Center for Advanced Data Assimilation and

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MULTISCALE APPROACH TO MODELING INTRINSIC . . . PHYSICAL REVIEW B 94, 064103 (2016) We define \hat{I}_{ij}^n such that $\hat{I}_{ij}^n = 1$ if $n = 1$ and $\hat{I}_{ij}^n = 0$ otherwise, i, j Using the definition of \hat{I}_{ij}^n and further simplifying Eq. (5) we get $\hat{I}_{ij}^n = 1$ \forall n modes $n = 1$ $\hat{I}_{ij}^n = E_n$.

Multiscale approach to modeling intrinsic dissipation in

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