
Length Scale Dependent Phonon Interactions

length-scale dependent average structures ... - length-scale dependent average structures, piezoelectricity enhancement and depolarization mechanisms in a non-mpb high-performance piezoelectric alloy system $\text{PbTiO}_3\text{-Bi}(\text{Zr}_{1/2}\text{Ni}_{1/2})\text{O}_3$ rishikesh pandey¹, dipak kumar khatua¹, shekhar tyagi², muluaalem abebe¹, bastola naranjan¹, vasant sathar² and rajeev ranjan^{1*}

kinetics of length scale dependent deformation of gold ... - kinetics of length scale dependent deformation of gold microspheres and micropillars a z m ariful islam the university of western ontario supervisor dr. robert j. klassen the university of western ontario graduate program in mechanical and materials engineering

depth-dependent rheology and the horizontal length scale ... - small-scale instabilities. this allows a low-viscosity channel to maintain large aspect ratio cells for rayleigh numbers approaching that of the present-day earth. citation: lenardic, a., m. a. richards, and f. h. busse (2006), depth-dependent rheology and the horizontal length scale of mantle convection, *j. geophys.*

length scale and strain rate dependent shear banding ... - length scale and strain rate dependent shear banding deformation in nanoscale cu/w multilayers yuan li¹), *fei wang²), ping huang³) and ke-wei xu⁴) 1), 3), 4) state-key laboratory for mechanical behavior of material, xi'an jiaotong university, xi'an, 710049, china

microrheology probes length scale dependent rheology - microrheology probes length scale dependent rheology abstract we exploit the power of microrheology to measure the viscoelasticity of entangled f-actin solutions at different length scales from 1 to 100 μm over a wide frequency range. we compare the behavior of single probe-particle motion to that of the correlated motion of two particles.

length-scale dependent transport properties of colloidal ... - length-scale dependent transport properties of colloidal and protein solutions for prediction of crystal nucleation rates† tomasz kalwarczyk,*a krzysztofsozanski,a slawomirjakiela,a agnieszka wisniewska,a ewelina kalwarczyk,a katarzyna kryszczuk,a sen houab and robert holyst*a we propose a scaling equation describing transport properties (diffusion and viscosity) in the solutions of

length-scale-dependent cracking and buckling behaviors of ... - length-scale-dependent cracking and buckling behaviors of nanostructured cu/cr multilayer films on compliant substrates k. wu, j.y. zhang, j. li, y.q. wang, g. liu†, j. sun† state key laboratory for mechanical behavior of materials, xi'an jiaotong university, xi'an 710049, china

a multi-length scale sensitivity analysis for the control ... - a multi-length scale sensitivity analysis for the control of texture-dependent properties in deformation processing veera sundararaghavana, nicholas zabarasb,* a department of aerospace engineering, university of michigan, ann arbor, mi 48109, usa b materials process design and control laboratory, sibley school of mechanical and aerospace engineering, ...

3d polymer microframes that exploit length-scale-dependent ... - 3d polymer microframes that exploit length-scale-dependent mechanical behavior** by ji-hyun jang, chaitanya k. ullal, taeyi choi, melburne c. lemieux, vladimir v. tsukruk, and edwin. i. thomas* materials science, especially metallurgy, has long exploited the relationship between microstructural scale, arising from

quantifying the length-scale dependence of surf zone advection - in the alongshore current v , which are dependent on the alongshore length scale. specifically we expect that, at short length scales, the inertia of the flow will cause changes in the position and magnitude of alongshore-vari-ability in v . to quantify this, we hypothesize that advection can be approximated in terms of a transfer function, $\hat{v} \dots$

length-scale dependence of horizontal dispersion in the ... - tribution, but scale-dependent turbulent diffusion is dominating the scale-dependence of k_{disp} at length scales between 100 and 1000 m. according to the model results, effects due to horizontal shear contribute less than 40% to the overall dispersion coefficient at length scales between 100 and 1000 m. however, hori-

large-scale evidence of dependency length minimization in ... - large-scale evidence of dependency length minimization in 37 languages richard futrell¹, kyle mahowald, and edward gibson department of brain and cognitive sciences, massachusetts institute of technology, cambridge, ma 02139

analytical and experimental determination of rate- and ... - the corresponding material intrinsic length scales at different strain rates. the same value for the material length scale cannot be used for different rate, temperature, and accumulated plastic-strain conditions. a variable length scale is introduced in this work and used on two different face-centered cubic (fcc) metals.

length-scale dependence of horizontal dispersion in the ... - length-scale dependent horizontal spreading in the surface water of small lakes. in addition to the principal questions related to the length-scale dependence of dispersion, estimates of disper-sion coefficients are important in applications with the 3-d models elcom (estuary, lake and coastal ocean model: **communication: length scale dependent oil-water energy ...** - the journal of chemical physics 135, 201102 (2011) communication: length scale dependent oil-water energy fluctuations robin underwood and dor ben-amotza) department of chemistry, purdue ...

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