

Language of shape - the role of curvature in condensed matter--physics, chemistry, and biology

Elsevier - differential geometry

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- Language of shape - the role of curvature in condensed matter--physics, chemistry, and biology
- Notes: Includes bibliographical references and index.
- This edition was published in 1997



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Tags: #Lipids #Speak #the #Language #of #Curvature

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Insufficient surfactant levels at preterm birth result in infant respiratory distress syndrome, and the standard therapy for this condition is substitution therapy with exogenous lung surfactant, usually of porcine origin ;. Permeation process of small molecules across lipid membranes studied by molecular dynamics simulations.

A theoretical study of diffusional transport over the alveolar surfactant layer

The closest I got was the Gaussian curvature being made analogous to topological charges , but I do not understand what that means in the context of a two-level system, for example. Thus, for knockout mice lacking the tubular network , our calculations suggest that they be less apt to sustain physical stress, while, from the aspect of oxygen uptake, they should be able to live otherwise normal lives.

Lipids Speak the Language of Curvature

Lateral phase separation in interfacial films of pulmonary surfactant.

Condensed Matter

However, the transport process also involves a step where the molecules change between a liquid and a gaseous state.

Condensed Matter

At point B, horizontal diffusion occurs through a pure lipid phase, and the permeability is given by 5. For example, at the boundary between the gas phase and the lipid membrane, the diffusion coefficient changes by four to five orders of magnitude , but there can be a local distribution equilibrium so that 4. Lectures on classical differential geometry, 2nd edn.

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We compare diffusion through the surfactant membrane in the CLP model with the one obtained for a membrane composed of a stack of bilayers with the same number of repeating bilayer units b. A large gradient in chemical potential is therefore a reaction to a low permeability in order to keep the flux high, and vice versa.

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This exemplifies a new physiological role of a tubular lipid network in the lung surfactant membrane. For a given shape, the Laplace pressure is larger the smaller the size of the alveoli, and the larger the surface tension.

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