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General optics. In most areas of optics, and especially in microscopy, the numerical aperture of an optical system such as an objective lens is defined by $NA = n \sin \theta$, where n is the index of refraction of the medium in which the lens is working (1.00 for air, 1.33 for pure water, and typically 1.52 for immersion oil; see also list of refractive indices), and θ is the maximal half-angle of the cone ...

Numerical aperture - Wikipedia

Adding more than one objective to an optimization problem adds complexity. For example, to optimize a structural design, one would desire a design that is both light and rigid.

Mathematical optimization - Wikipedia

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The over-arching presumption in modern science and philosophy is that consciousness emerges from complex synaptic computation in networks of brain neurons acting as fundamental information units.

Consciousness in the universe: A review of the [arXiv](#) OR

Self-Organization Generates Information. Authors: Udo E. Steinemann Comments: 17 Pages.

Self-organization takes place in a specific kind of dynamical systems - e.g. from physics, chemistry or biology - which operate in the view of physics far from thermo-dynamical equilibrium searching for quasi-stable internal states.

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Data Does Not Match Special Relativity Time Dilation. IMPORTANT UPDATE:I have started a YouTube channel at <https://www.youtube.com/channel/UCfucv1ZRMKTxD07cuHEf3hQ>.It ...

Twin Paradox

There is a very interesting paper here : <http://brneurosci.org/co2.html> which describes the basic physics. The absorption length for the existing concentration of CO2 ...

Doubling CO2 and basic physics | Clive Best

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