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This is probably one of the most concise, easy-to-follow introductions to continuum mechanics out there, especially if you have a working knowledge of linear algebra. It is a relatively modern treatment that uses

nice matrix notation for the deformation gradient and strain that you will immediately recognize if you have read some of the popular SIGGRAPH papers on deformable model simulation.

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the teaching of fluid and solid mechanics...

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the teaching of fluid and solid mechanics focuses on the general mechanical principles that apply to all materials.

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Continuum mechanics deals with deformable bodies, as opposed to rigid bodies. A solid is a deformable body that possesses shear strength, sc. a solid can support shear forces (forces parallel to the material surface on which they act). Fluids, on the other hand, do not sustain shear forces.

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Munidasa Ranaweera of the (then) University of Ceylon, and was subsequently shaped and

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Continuum mechanics (CM) is a
beautiful and infinitely useful branch of
mathematics, but the learning curve is

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relatively steep. Once you scale the cliff, you are able to do simply amazing things and gain a deeper appreciation for the deformation of materials.

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Verlag, New York. Google Scholar. Strang G (1986) Introduction to Applied Mathematics. Wellesley-Cambridge Press, Cambridge, MA.

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