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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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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.

~~Continuum mechanics - Wikipedia~~

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Introduction to Continuum Mechanics, 4th Edition W. Michael Lai, David Rubin and Erhard Krempf
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of fluid and solid mechanics focuses on the general mechanical principles that apply to all materials. can go on to specialize in any of the different branches of continuum mechanics.

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~~MEEM 5110 Continuum Mechanics/Elasticity—Gregory Odegard~~

W. D. Means 1976. Stress and Strain. Basic concepts of Continuum Mechanics for Geologists. xi + 339 pp., numerous illustrations. Springer-Verlag, New York, Berlin. Price DM 36.20; US \$14.80. ISBN 0 387 07556 9 and 3 540 07556 9. - Volume 115 Issue 1 - N.H.W

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