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The Strain Rate Tensor (or Rate Of Deformation Tensor) Is The Time Derivative Of The Strain Tensor. $\dot{\gamma}_{ij} \equiv D\gamma_{ij}/dt$ (1-38)
The Components Of The Local Velocity Vector Are $v_i = Du_i/dt$ (1-39). Since The Coordinates x_i And Time t Are Independent Variables, We Can Switch To

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