

**STEELS: FROM MATERIALS SCIENCE TO STRUCTURAL  
ENGINEERING**

Elin Remaley

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We are working with partners across the globe to understand how to save lives at risk from poor air quality. Most metals and alloys combinations of metals are also highly crystalline, which is the key to their ability deform plastically and to resist failure under repeated mechanical loading—good examples of this are Steels: From Materials Science to Structural Engineering alloys used in aircraft that can compensate for deformation in high-speed flight, or skyscrapers designed to bend in the wind. Ab initio-guided elemental composition adjustment is used to tune the stacking-fault energy, and

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