Variable	Definition	Notes & comments
	• (i) iterative solution using conventional small deformation beam theory (**divergence of series**) • (ii) application of large-deformation beam theory (**nonexistence of solution** since determinant of coefficient matrix is zero - **bifurcation point**) • (iii) instability is equivalent to **loss of convexity** (energy approach)	Properties and characteristic of instability phenomenon
	Images removed due to copyright restrictions: photograph of fault line, World Trade Center towers, shattered wine glass, X-ray of broken bone.	Introduction: Fracture – application and phenomena

Lectures 34: Summary – characteristics of buckling phenomenon (equivalency of divergence of series, nonexistence of solution/bifurcation point/loss of convexity). Introduction to fracture.