<u>EE 247B/ME 218</u>: Introduction to MEMS Design <u>Lecture 10m2</u>: Mechanics of Materials

CTN 2/18/16







Copyright © 2016 Regents of the University of California

<u>EE 247B/ME 218</u>: Introduction to MEMS Design <u>Lecture 10m2</u>: Mechanics of Materials

Normal Stress (1D) If the force acts normal to a surface, then the stress is called a normal stress Force assumed uniform over = 0 = <u>F</u> Stress = {Forde per } [N/m²:Pa] the whole area A Standard mks unit ⇒ Microscopic Definition: force per unit area acting on the surface of a differential volume element of a solid body Δz = Note: assume stress acts uniformly across the entire surface of the element. ×¥ Δy not at just a point Differential volume element







CTN 2/18/16

<u>EE 247B/ME 218</u>: Introduction to MEMS Design <u>Lecture 10m2</u>: Mechanics of Materials





CTN 2/18/16





Copyright © 2016 Regents of the University of California