



Baghdad, Iraq  
University of Technology  
Department of Electrical Engineering  
Division Electronic Engineering



# ***Computer Networks***

## **Lecture 2-1**

### ***NETWORK MODELS***

*4<sup>th</sup> year (semester 2)*

Lecturer Dr. Khalida Sh. Rijab

# Computer Networking 4th Edition Solution

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web in chapter 2 we examined the stresses in thin walled cylinders subjected to internal pressure the assumption of thin walls allowed us to develop a simple analysis that ignored the variation of radial stress when the wall thickness becomes appreciable in proportion

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web oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about then it can be assumed that the hoop and longitudinal stresses are constant across the thickness it may also be assumed that the radial stress is small and can be neglected

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web a fluid container sealed by a piston is open c in this case an external axial force  $f_a$  is mandatory for equilibrium of the overall piston and cylinder assembly a bicycle pump is a common example if  $a_i$  is the internal circular area then a free body of either piston or cylinder end c must have  $f_a p_i a_i$  and there is no need for axial wall stresses to

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