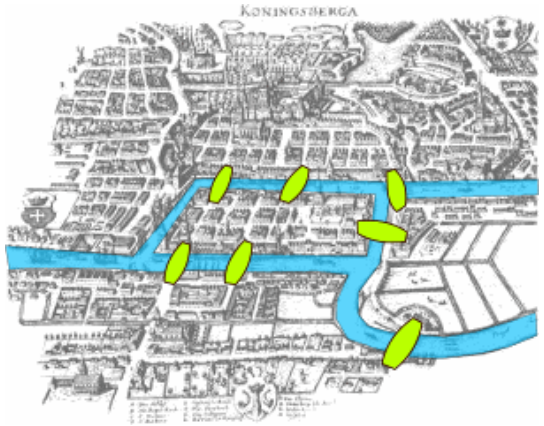
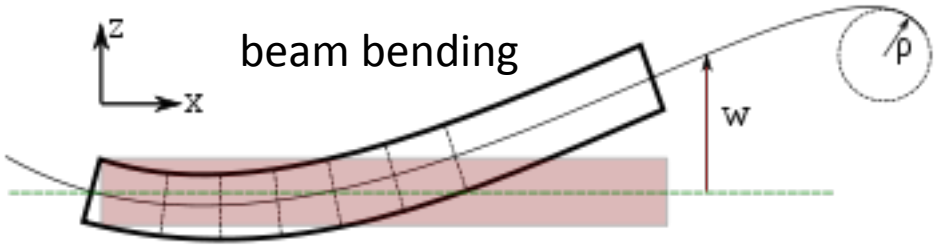
Leonhard Euler 1707-1783

The 7 bridges of Königsberg





Differential geometry of curves and surfaces

$$\frac{\partial \rho}{\partial t} + \nabla \cdot (\rho \vec{v}) = 0$$

$$\frac{\partial \vec{v}}{\partial t} + \vec{v} \cdot \nabla \vec{v} = -\frac{1}{\rho} \nabla P$$

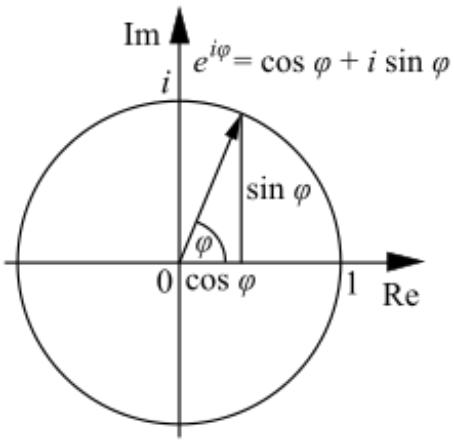
$$\frac{\partial E}{\partial t} + \nabla \cdot (\vec{v}\,(E + P)) = 0$$

Euler's equation for liquids
The basis of electromagnetic formulae

"Euler characteristics" for a polyedron: vertices+faces-edges
Graph theory

The unexpected equation

$$e^{i\pi} + 1 = 0$$



Presentation of complex numbers