



## Elastic Stresses in Structures: Translated from Castigliano's Théorème de l'équilibre des Systèmes Élastiques et ses Applications (Paperback)

By Alberto Castigliano

Cambridge Library Collection, United Kingdom, 2014.  
Paperback. Book Condition: New. 244 x 170 mm. Language:  
English Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Many of  
the modern methods of structural analysis based on concepts of  
virtual work and energy were developed and popularised in Italy  
in the latter half of the nineteenth century. Building on the work  
of Luigi Menabrea, the mathematician Carlo Alberto Castigliano  
(1847-84) provided the first full proof of these methods in his  
1873 dissertation while based in Turin. Equally important was his  
popularisation of the theory in his *Théorie de l'équilibre des  
systèmes élastiques et ses applications* (1879), in which he  
applied his theory to a wide range of important real-world  
cases. The work is here reissued in its 1919 English translation, by  
the consulting engineer and lecturer Ewart S. Andrews.  
Castigliano covers the basic theory of elastic stresses,  
introducing useful approximations; he then moves on to the  
analysis of real structures, including roof trusses, arches and  
bridges in both iron and masonry.



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