Prevalence of human papilloma virus (HPV) and its genotypes in cervical lesions among Egyptian women by the linear array HPV genotyping test

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One of the major concerns in designing of prestressed beams in ultra-high performance fiber reinforced concrete (UHPFRC) is improvement of their ductility fracture due to the nature of the materials used in their manufacture. This can induce plastic behaviours which it is necessary to take into account by designing of such structures, especially when they are of large spans. In the present work, it is proposed an analytical model in large deformation of a rigid plastic prestressed UHPFRC beam embedded at one end and having at other end rolled support. She is approached by a local uniform load and external moments to supports. The proposed non-linear model can find exact analytical solutions for the determination of the local arrows and the associated charge by the technique of Lagrange multiplier which allows finding the stationary points of differentiable function of one or several variables under constraints. The results of this work can be useful in designing and calculation of long span prestressed structures with plastic rigid behavior.

Speaker Biography

Reem Abdelhameed Harfoush has completed her PhD at the age of 35 years from Alexandria University as well as publications to obtain professor degree. She is the quality manager of "Diagnostic Medical Microbiolgy Lab, Faculty of Medicine, Alexandria University", that serves Alexandria Main University Hospital. She has published more than 20 papers that were cited 68 times and has been serving as a reviewer in (Alexandria Journal of Medicine). Her h- index is 5.

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