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Biography

Dr. Chakar holds a Doctorate degree and a D.E.A. degree in "Sciences and Technics of Buildings", both from the Ecole Nationale des Ponts et Chaussees, in France, and a BE degree in Civil Engineering from the Lebanese University in Lebanon.

He is an Associate Professor of Civil Engineering and teaches courses in the field of solid and structural mechanics. His main research interests include the stress analysis of isotropic plates containing multiple holes of various shapes.

Peer-reviewed Journals

International

- C. Ghnatios, G. Asmar, E. Chakar, and C. Bou Mosleh, "A reduced-order model manifold technique for automated structural defects judging using the PDG with analytical validation", *Comptes Rendus Mécanique*, Vol. 347, Issue 2, pp.101-113, 2019.
- Joseph Assaad, Elie Chakar, Gérard-Philippe Zéhil "Testing and modeling the behavior of sandwich lightweight panels against wind and seismic loads."
<https://doi.org/10.1016/j.engstruct.2018.08.041>
- Assaad J., Harb J., Chakar E., 2009. Relationships between Key ASTM Test Methods Determined on Concrete and Concrete-Equivalent-Mortar Mixtures. *Journal of ASTM International*, Vol. 6, No. 3, 14 pages.

Peer-reviewed Conference Proceedings

International

- C. Ghnatios, A. Rustom, G. Asmar, & E. Chakar. "A reduced order model based manifold technique for automated defect judging, application to structural holes"; 29th IEEE international conference on microelectronics (ICM2017), Beirut (Lebanon), December 2017.
- Asmar, G., Chakar, E., & Jabbour, T., "Some Unexpected Results in the Stress Calculation Around Multiple Holes in an Isotropic Plate Under In-Plane Loads"; 12th Biennial ASME Conference on Engineering Systems Design and Analysis, ESDA2014-20608, Copenhagen, 2014.
- Chakar, E., & Asmar, G., "Resonant Mode Suppression in a Vibratory System: Application to Earthquake Engineering"; LAAS 17th International Scientific Conference which was held at the Université Saint-Esprit de Kaslik (USEK), November, 2010.
- Asmar, G., & Chakar, E., "Stress Analysis of an Isotropic Plate Containing Three Aligned Circular Holes under In-Plane Symmetric Loading"; 10th Biennial ASME Conference on Engineering Systems Design and Analysis, ESDA2010-25213, pp. 351-358, Istanbul, Turkey, 2010.
- Asmar, G., & Chakar, E., "Analysis of an Isotropic Plate Containing Three Identical Circular Holes Arranged in a Triangular Configuration"; Proceedings of the International Conference on Advances in Computational Tools for Engineering Applications, NDU, Lebanon, pp. 62-67, 2009.