



**Dr. Navvab Shafiei**

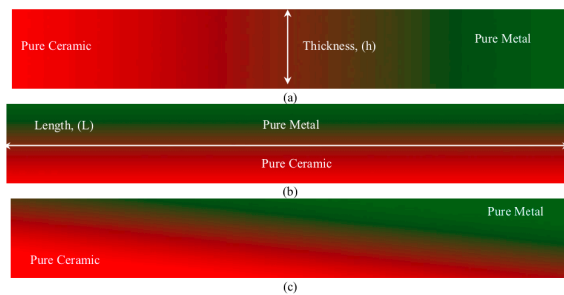
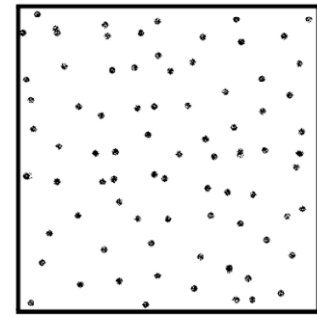
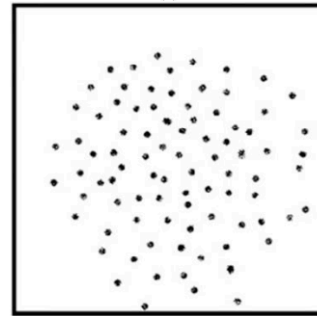


Fig. 1 Schematic of the different material distributions, (a) AFG, (b) FG and (c) 2D-FG



(a)



(b)

Fig. 2 Cross section area of FG porous beam. A: even distribution of porosities (FGM-I). B: uneven distribution of porosities (FGM-II)

**The middle and right-most images above are from:** Mirjavadi, S.S., Afshari, B.M., Shafiei, N., Hamouda, A. and Kazemi, M. (2017), "Thermal vibration of two-dimensional functionally graded (2D-FG) porous Timoshenko nanobeams", *Steel Compos. Struct.*, 25(4), 415-426.

See:

<https://scholar.google.com/citations?user=BdZ75XUAAAAJ&hl=en>

<https://pnuir.academia.edu/NavvabShafiei>

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### **Selected Publications:**

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