And finally...

The place to test your knowledge and problem-solving ability.
If you would like to submit a quiz or problem, contact tse@istructe.org

This month we present a reader contribution from Ewan Macpherson on shear forces. The answer can be found on page 98.

Question

A building is to be formed of a seven-storey block and a nine-storey block, joined together by a rigid podium at first-floor level (Figure 1). Horizontal wind loads act at every storey and each block is stabilised by its own core. The same core cross-section has been used for both blocks.

Complete the shear force diagram shown in Figure 2 for ground to first-floor level.

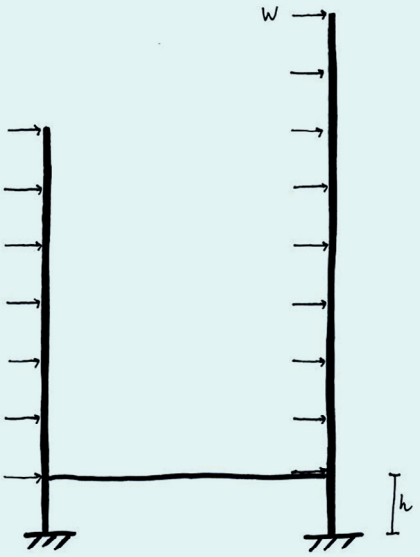

Figure 1

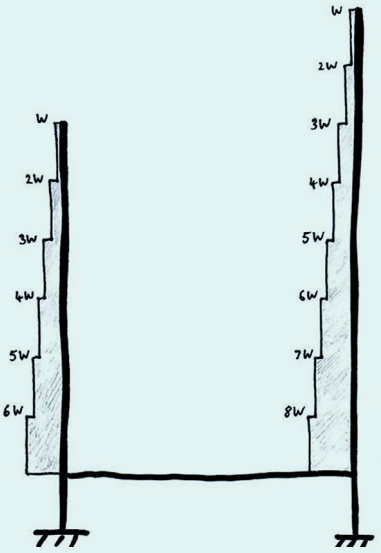

Figure 2

Submit your problem for consideration to tse@istructe.org. The author of each published problem will receive a single e-book of their choice from the Institution's current catalogue.

Submit your own teaser

The Structural Engineer invites contributions to the popular 'And finally...' brainteaser section of the publication.

Readers are invited to submit a simple problem addressing an aspect of fundamental structural understanding. Problems will ideally be in the form of a question and multiple-choice answer, with accompanying diagram(s).

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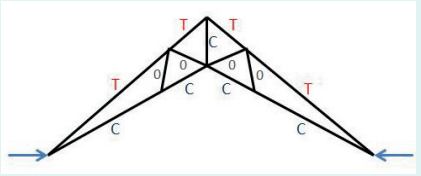

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