Effect of Windows and Glass in the Exterior of Buildings on the Daily Course of Temperature Indoors.

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Due to the influence of contemperary European architecture, large areas of glass are nowadays often applied in the exterior of buildings in warm countries. If the indoor comfort conditions are not mechanically controlled, the temperature-time variation of indoor air is introduced in the heat balance equations turning the mathematical treatement of the problem into a complex one governed by the laws of unsteady flow of heat. The thermal behaviour of such glass fronts in different orientations and the resulting indoor air temperature fluctuations under normal summer and winter weather conditions in warm countries are investigated.

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