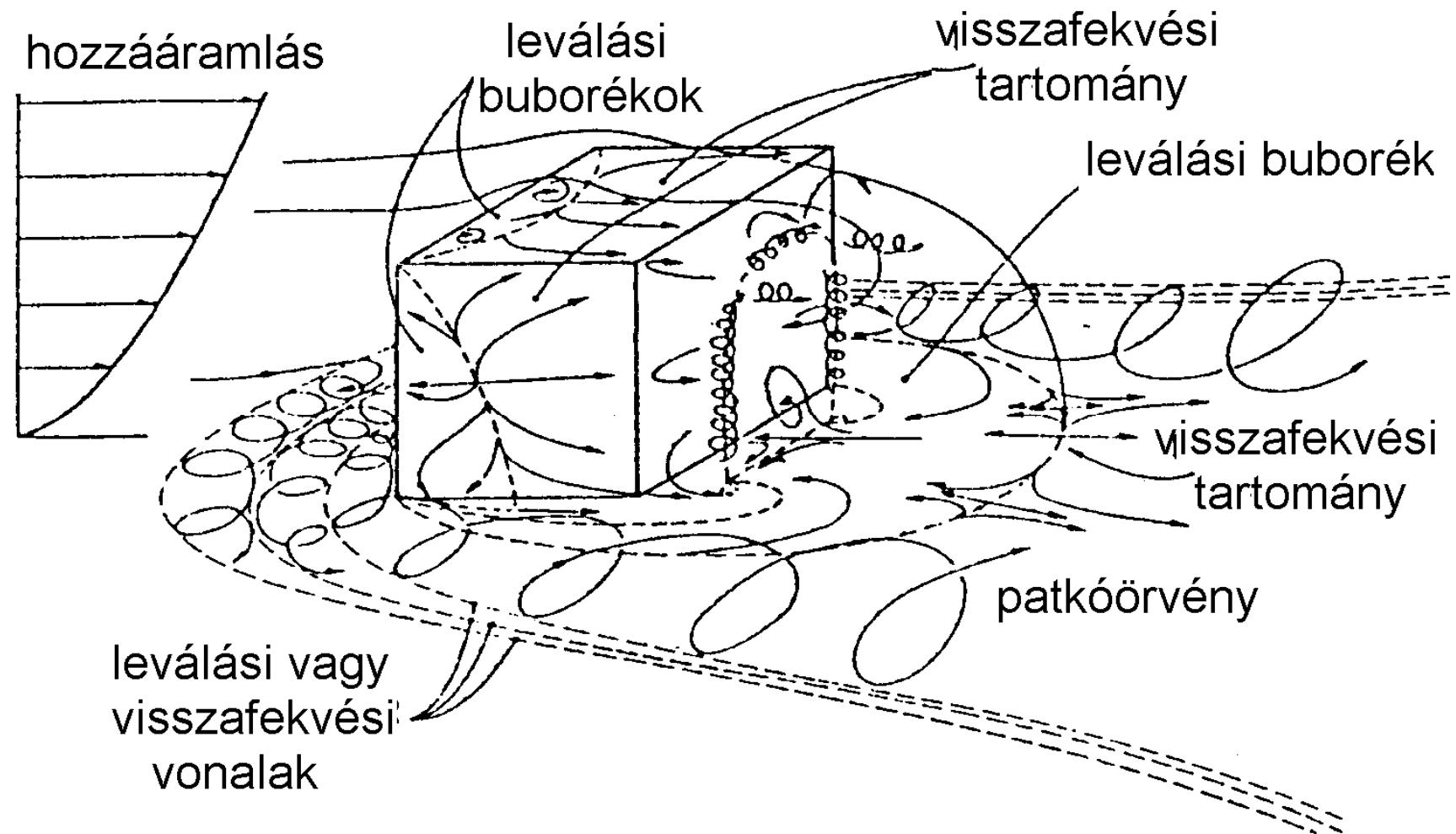


Épületek körüli áramlás

2009



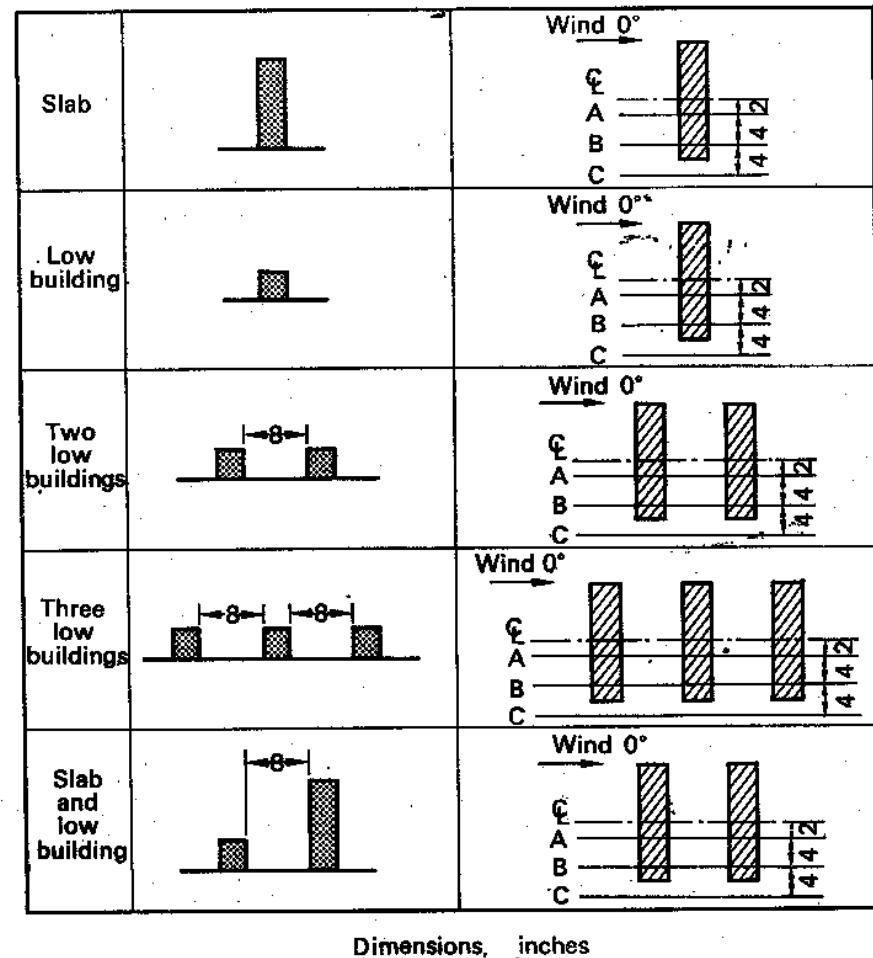


FIG. 7.17. Arrangements of models and details of planes of traverse.

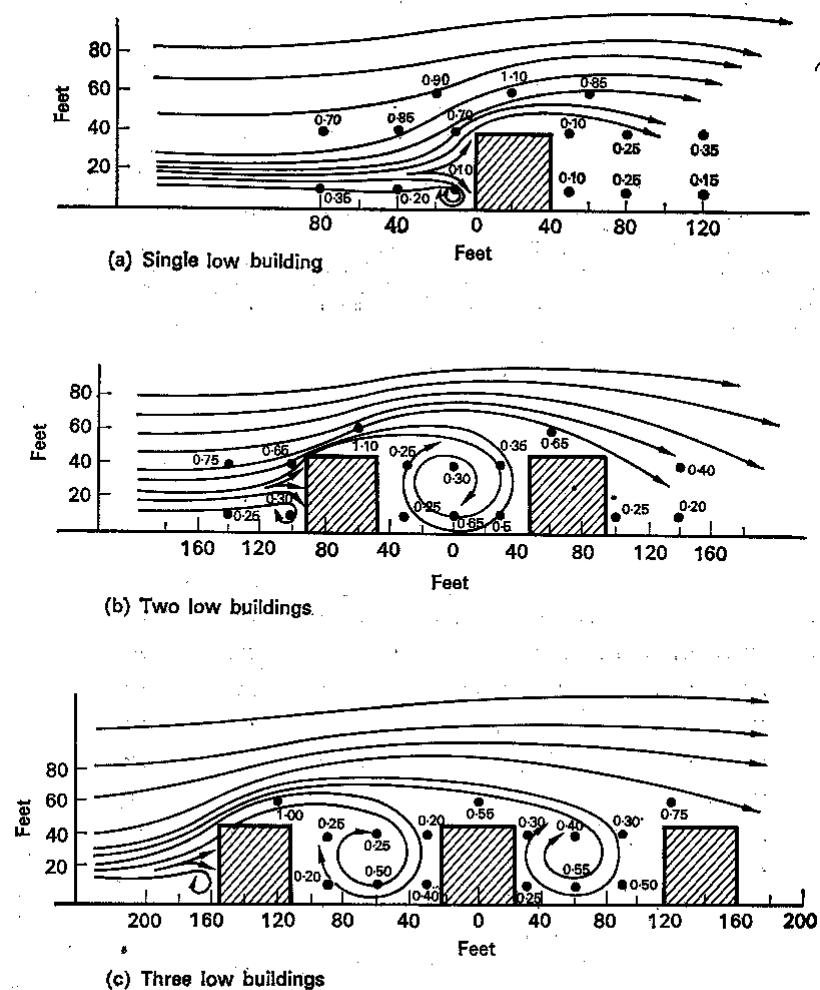
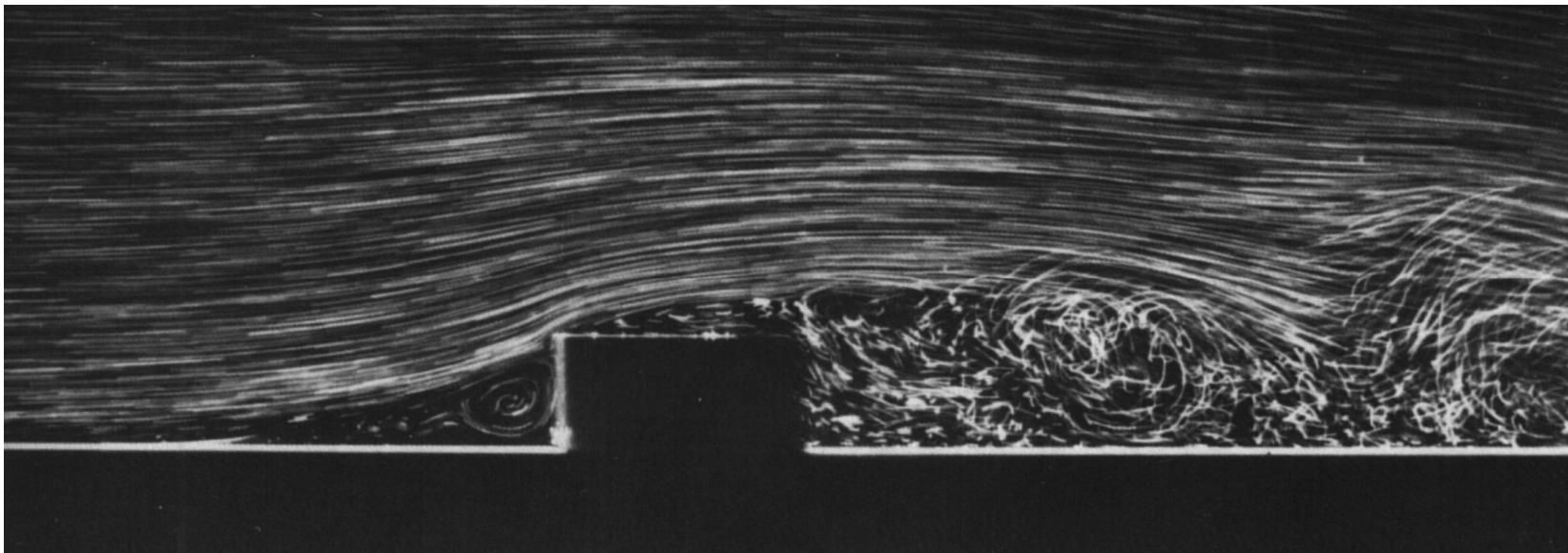
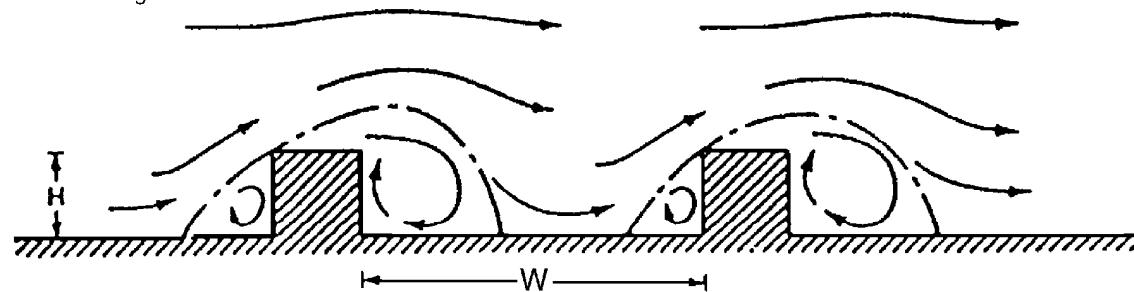


FIG. 7.19. Flow pattern on the centre line of one, two and three low buildings.⁷⁷
(Velocity = 1.0 at roof level, away from buildings).

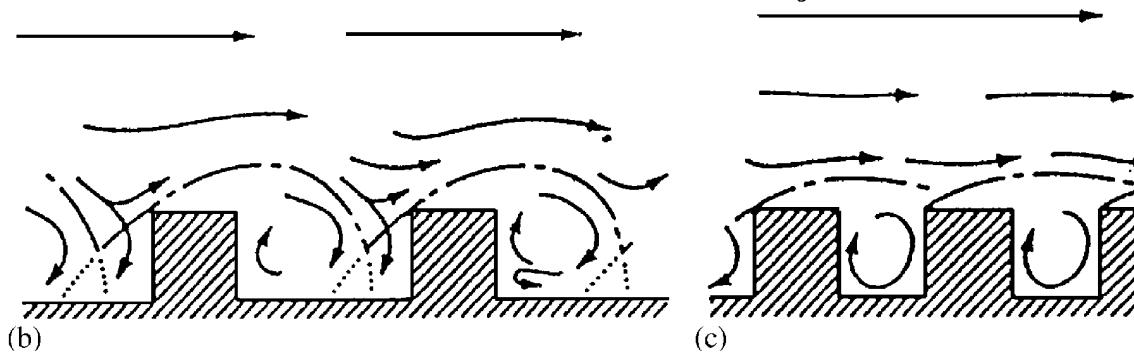


Isolated roughness flow



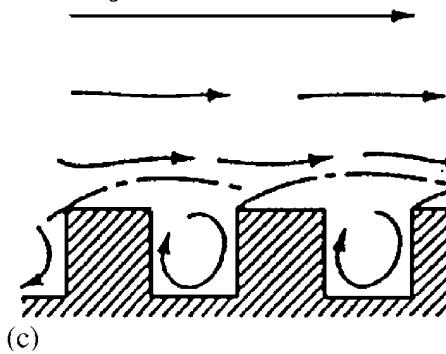
(a)

Wake interface flow



(b)

Skimming flow



(c)

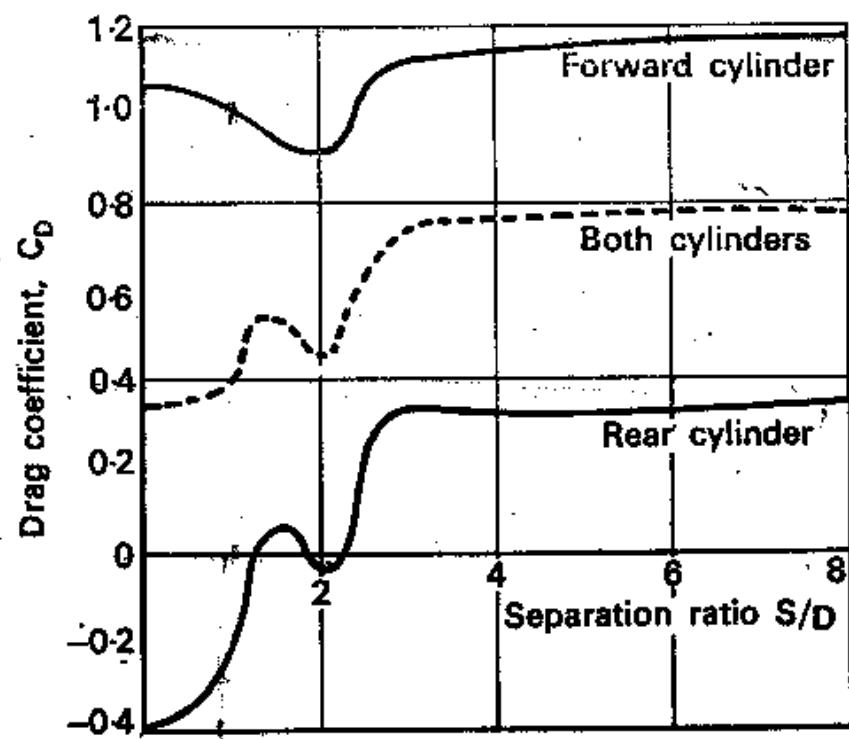
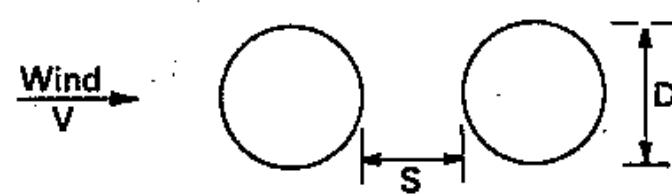


FIG. 3.13. Drag coefficient of two cylinders in line-of-wind.



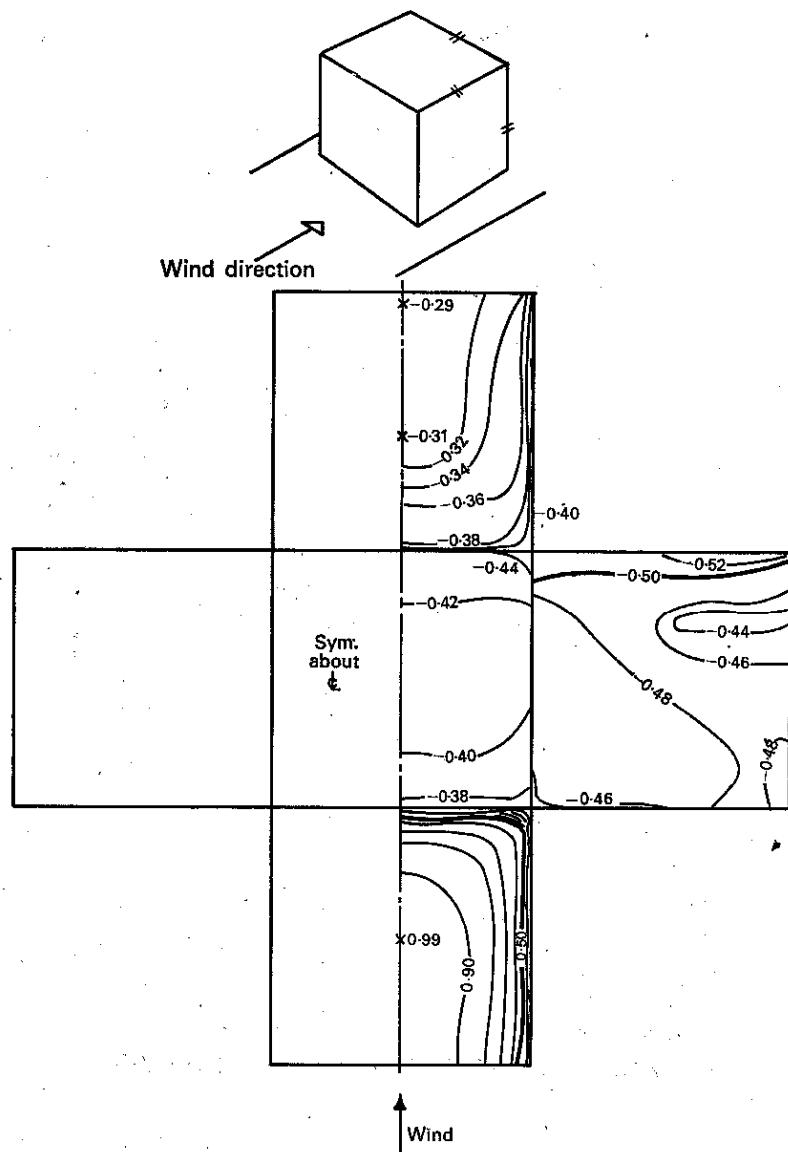


FIG. 3.8. Pressure distribution on a cube.⁽⁸²⁾

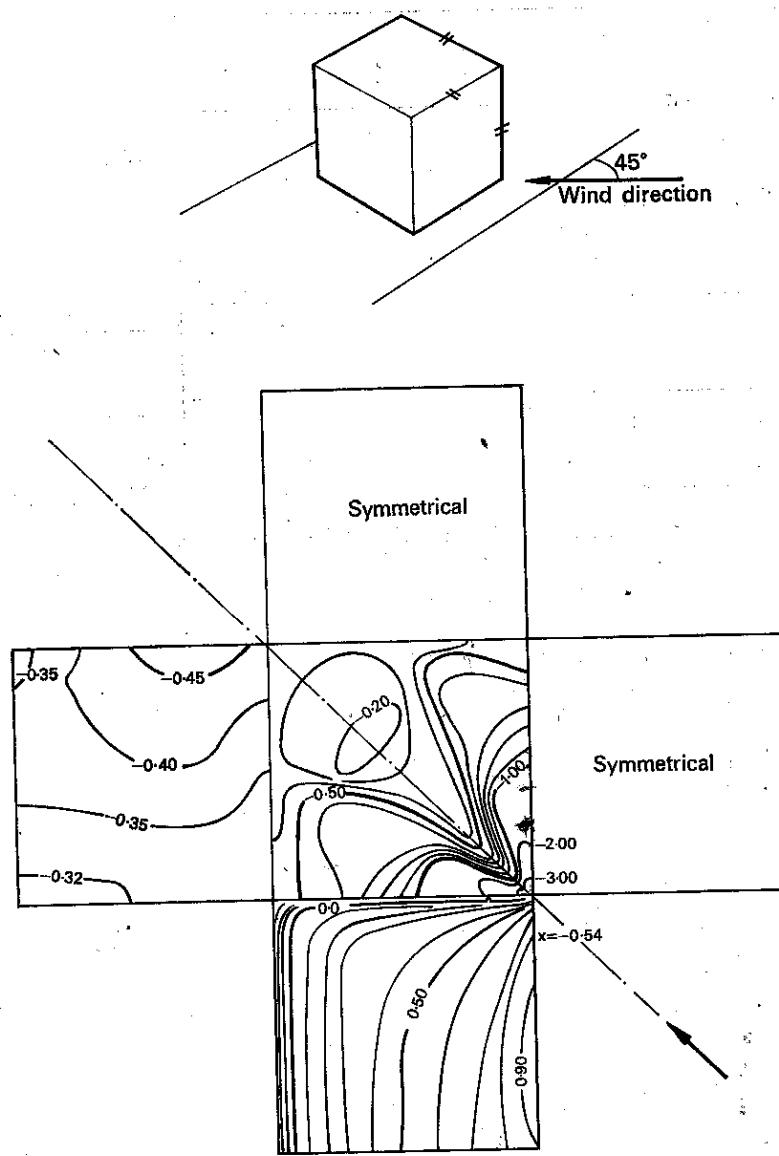


FIG. 3.9. Pressure distribution on a cube.⁽⁸²⁾

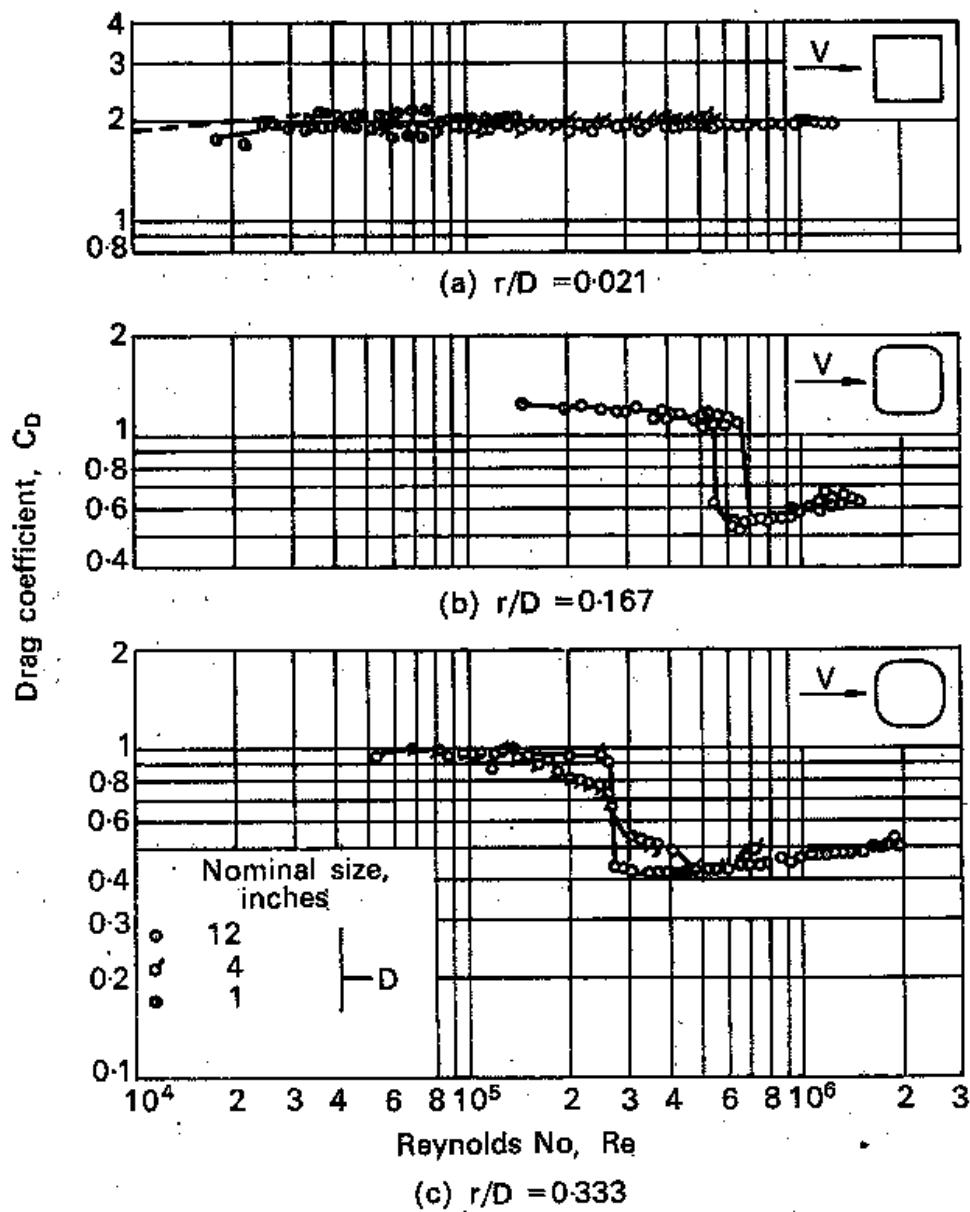


FIG. 3.12. Drag coefficients for square-section cylinders.⁽³⁶⁾

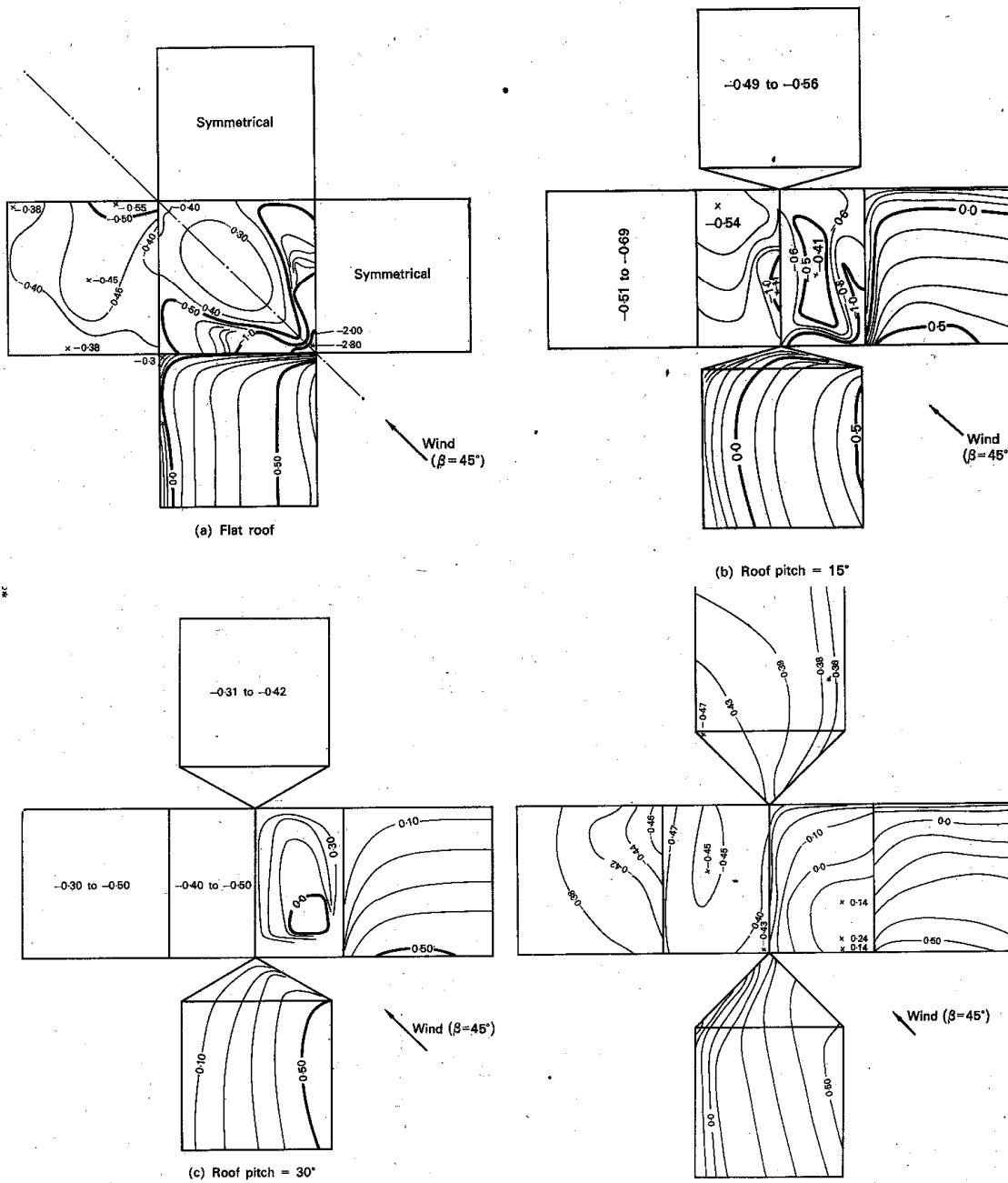


FIG. 7.6. Pressure distribution on a square building with various roof pitches.⁽⁸²⁾

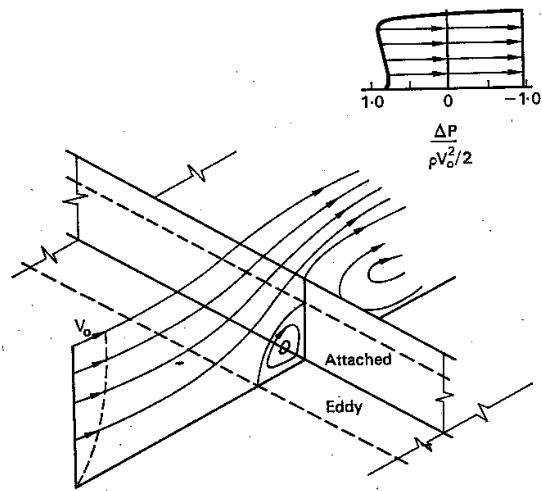
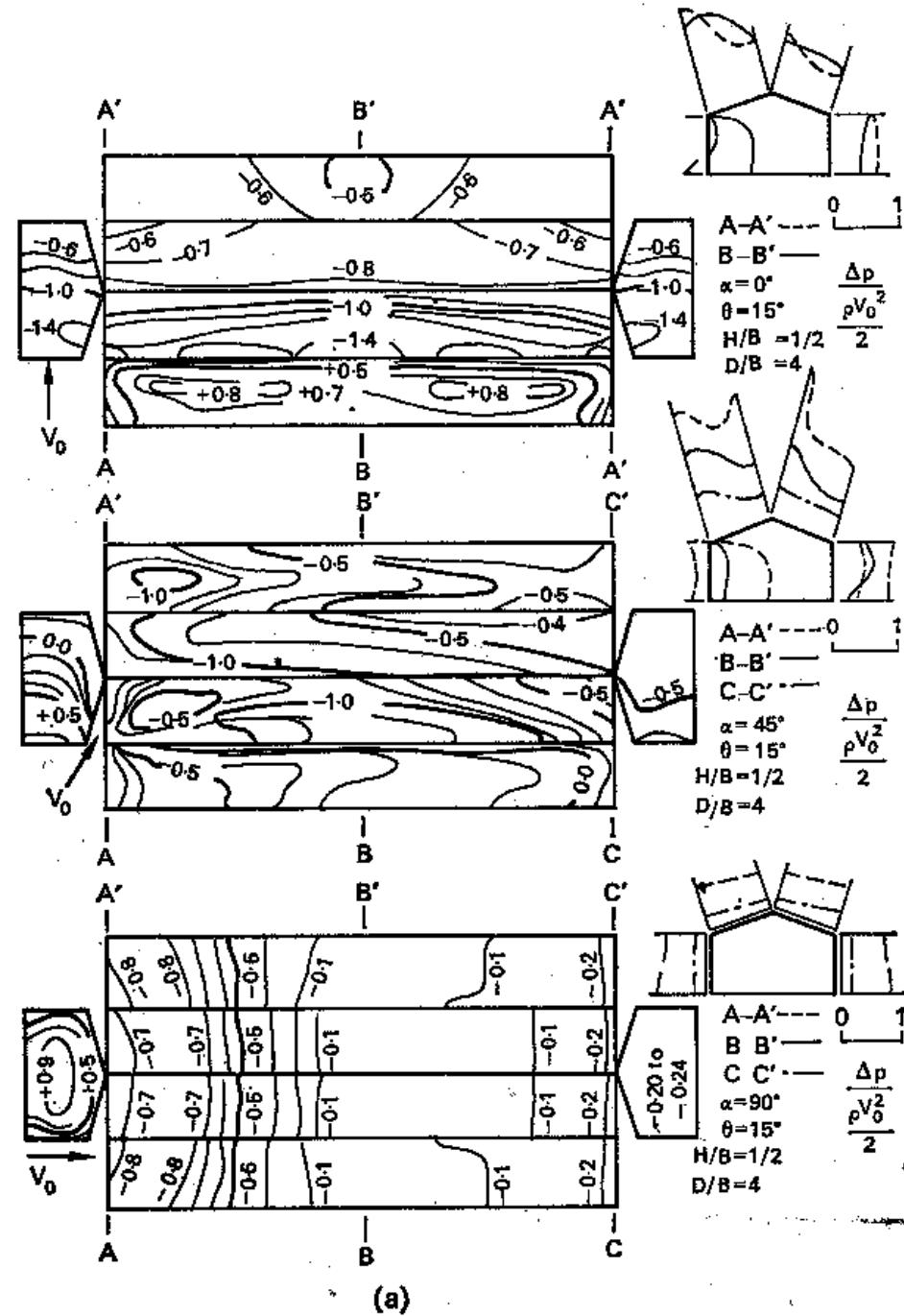
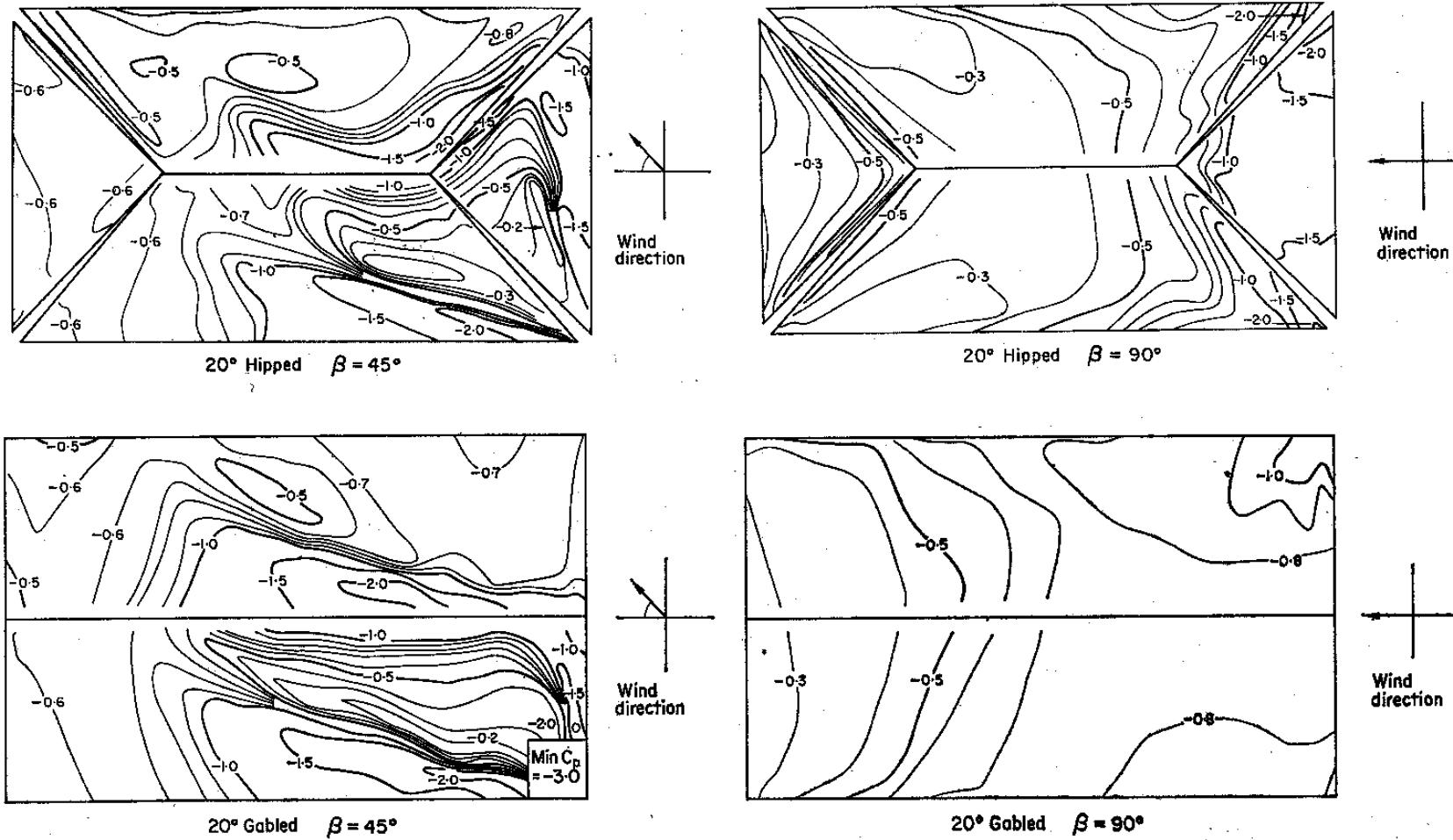


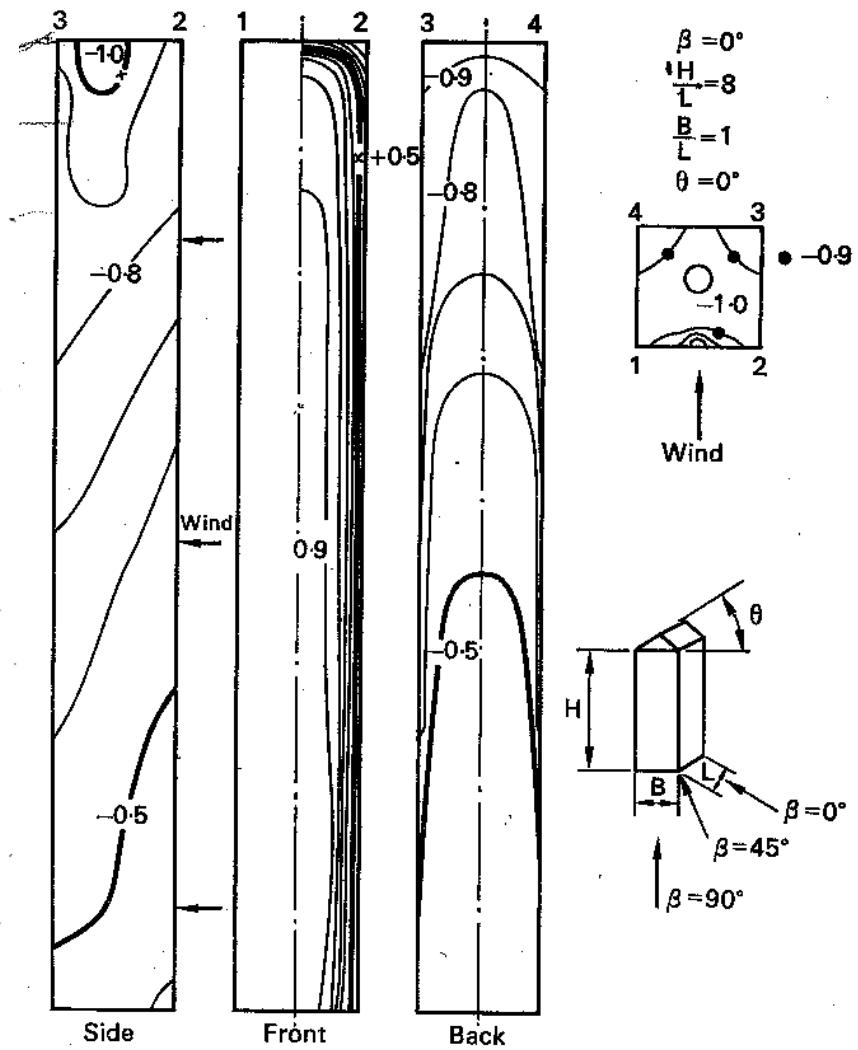
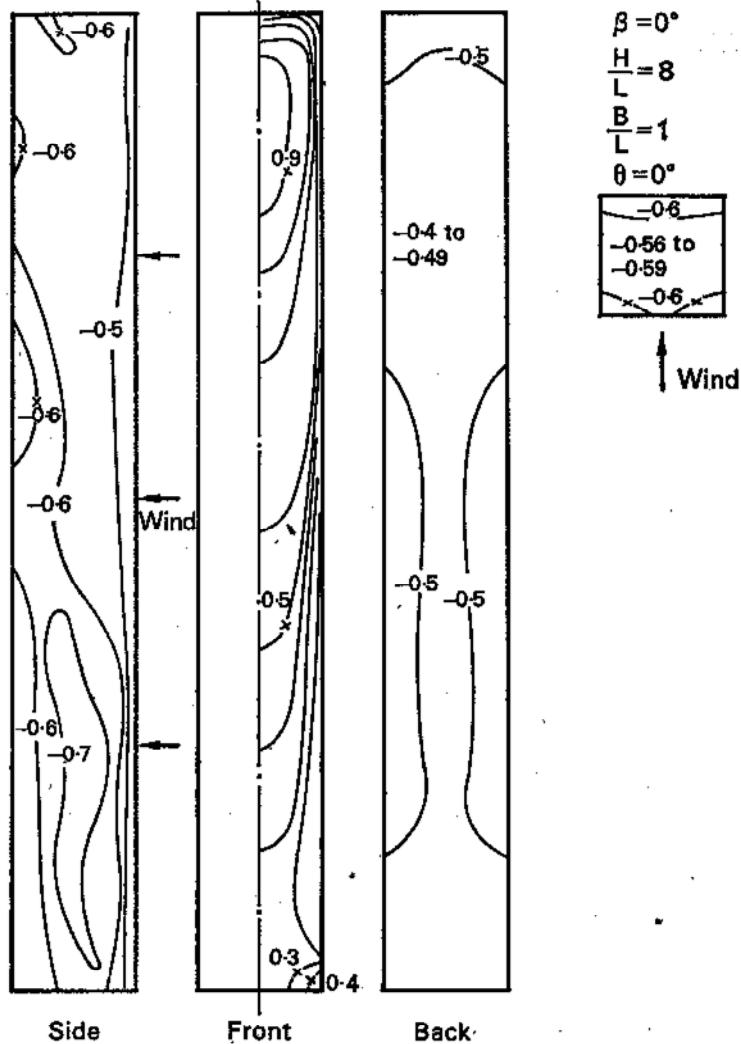
FIG. 7.4. Flow and pressure distribution on a long wall in a boundary-layer velocity field.⁽⁷⁸⁾



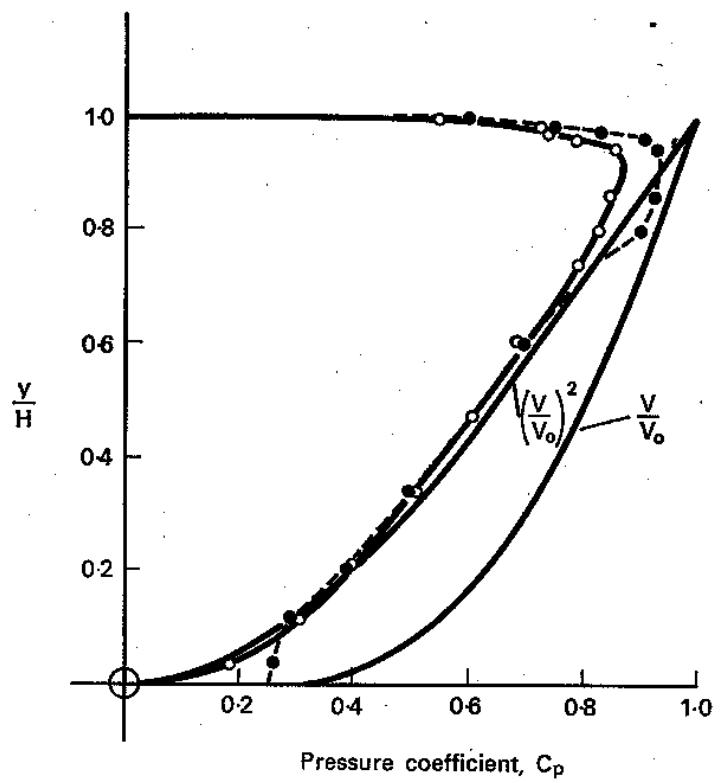
(a)



(b) Pressure distribution for 20° pitched roofs



Pressure distribution, tall building in a boundary-layer velocity field (a). Pressure distribution, tall building in a constant velocity field.
(referred to velocity at top of building).



Pressure distribution on front centre line of tall building.⁽⁷⁸⁾ Wind yaw angle $\beta =$

$$\circ \text{ Calculated, } = \frac{4P}{\frac{1}{2} \rho V_0^2} \cdot \left(\frac{V}{V_0} \right)^2 \quad (V_0 = \text{reference velocity}).$$

● Measured (model immersed in boundary layer).

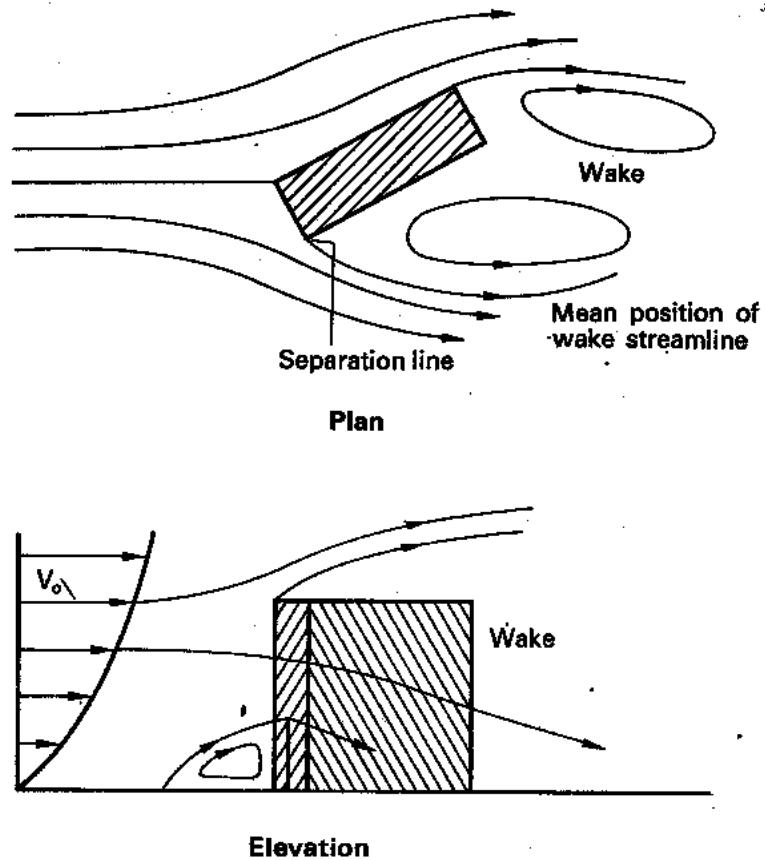


FIG. 7.1. Characteristics of wind flow over a building.⁽⁷⁸⁾

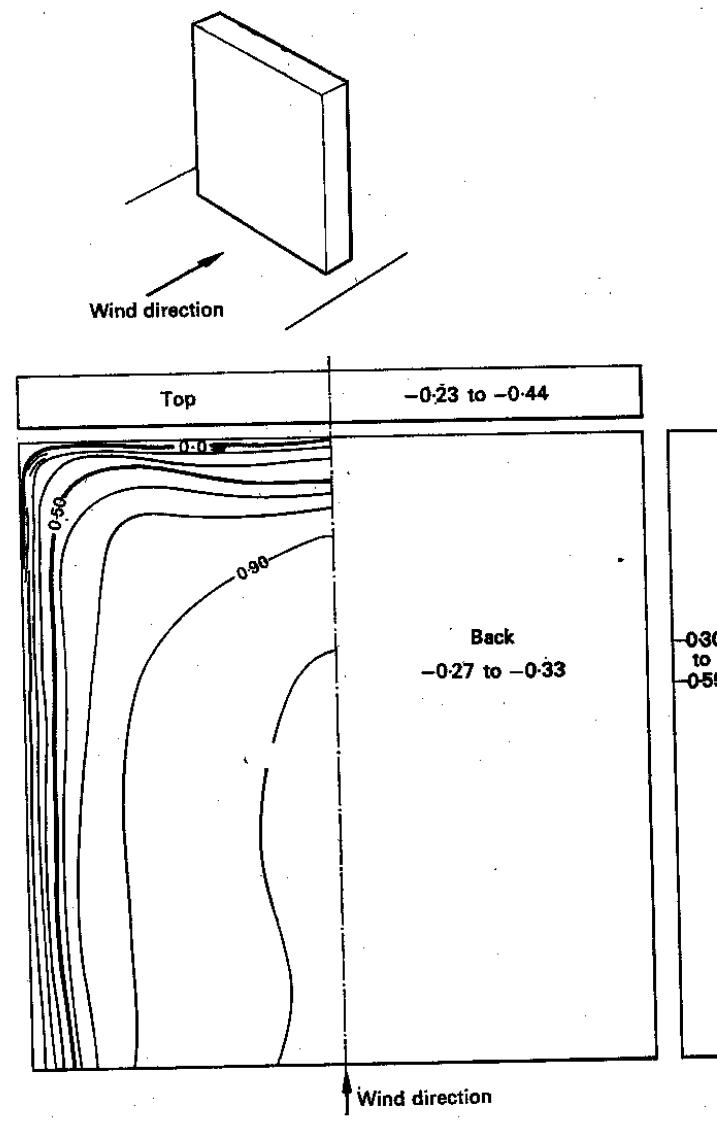
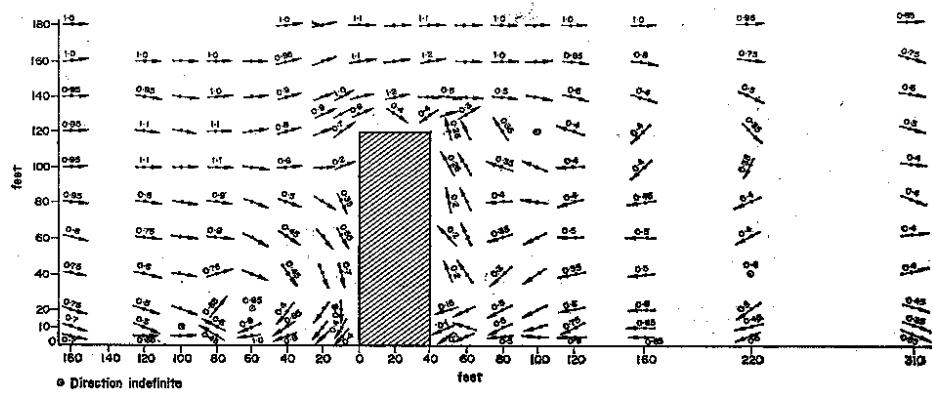
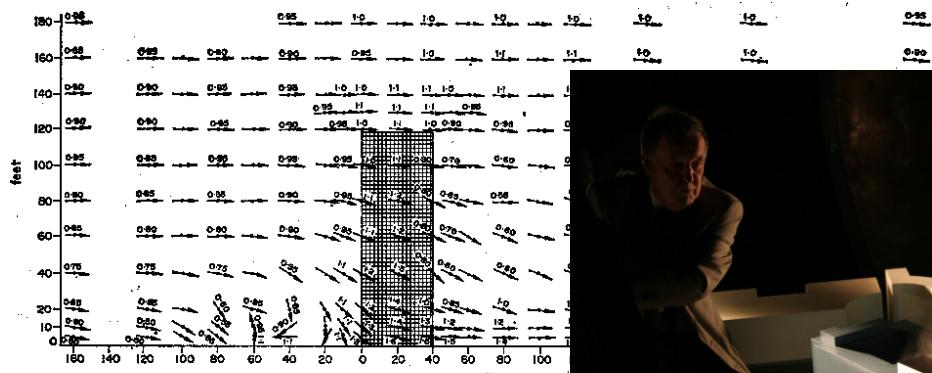


FIG. 3.7. Pressure distribution on a $12 \times 12 \times 1$ in. wall.⁽⁸²⁾



(a)



(b)



FIG. 7.18. Slab building in a wind tunnel.⁽⁷⁷⁾ (a) Gradient

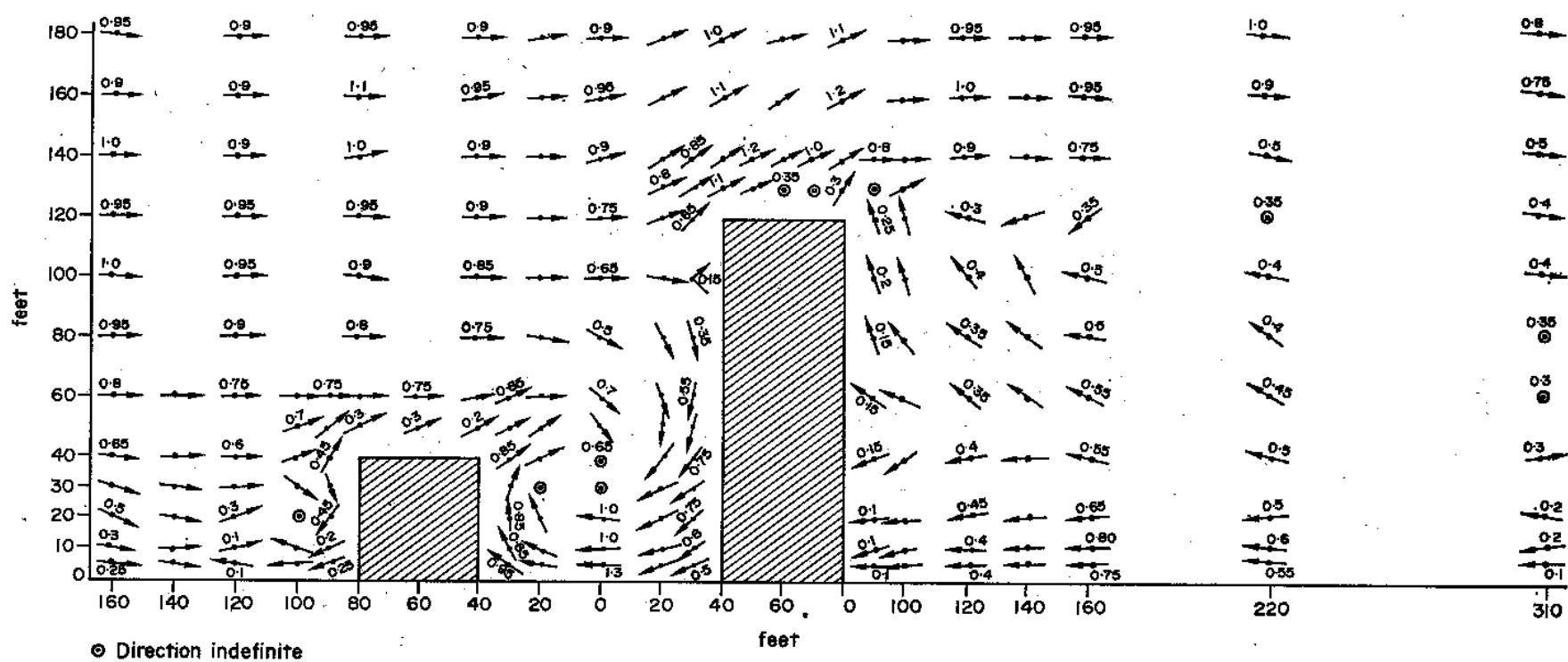
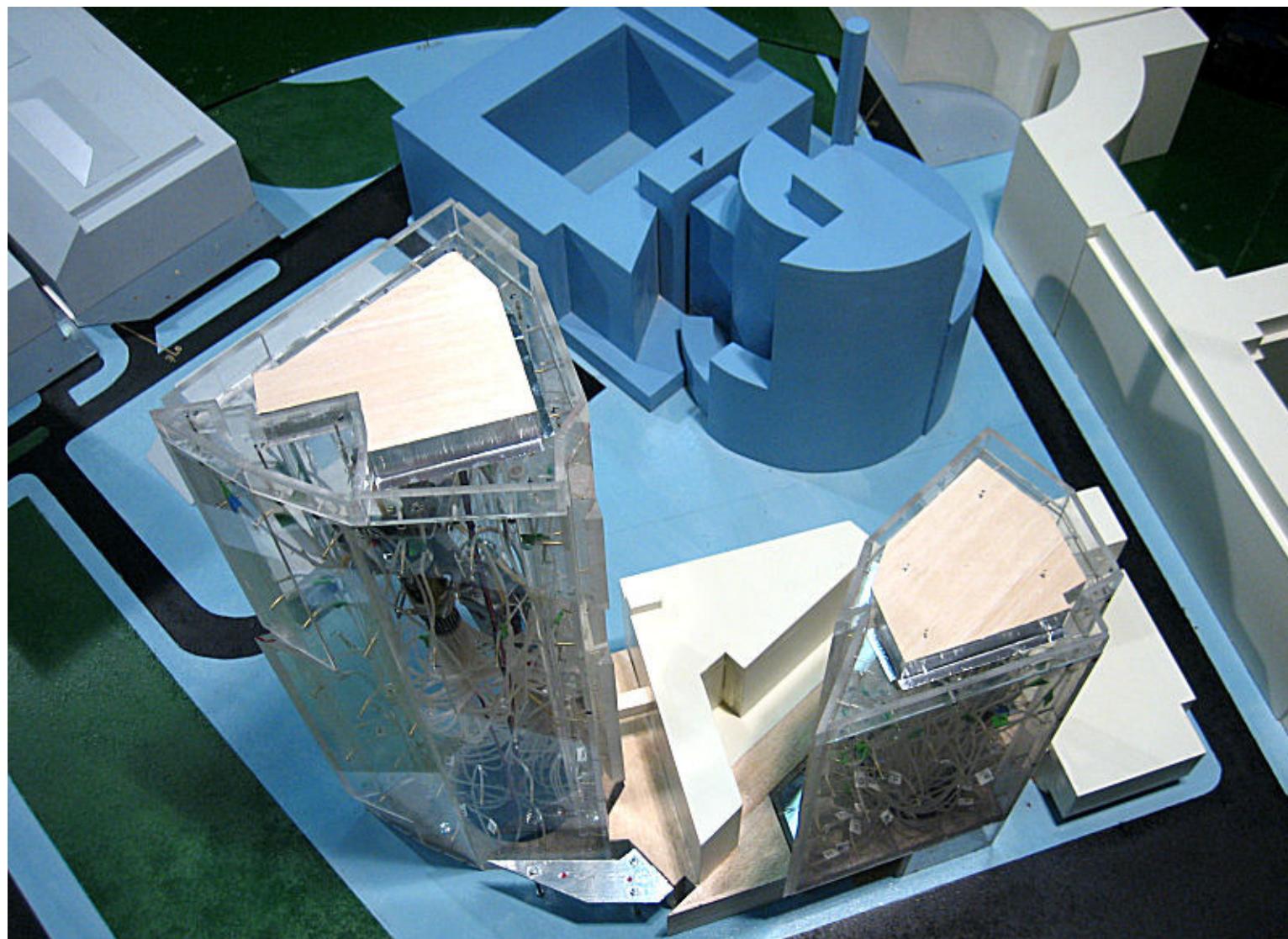
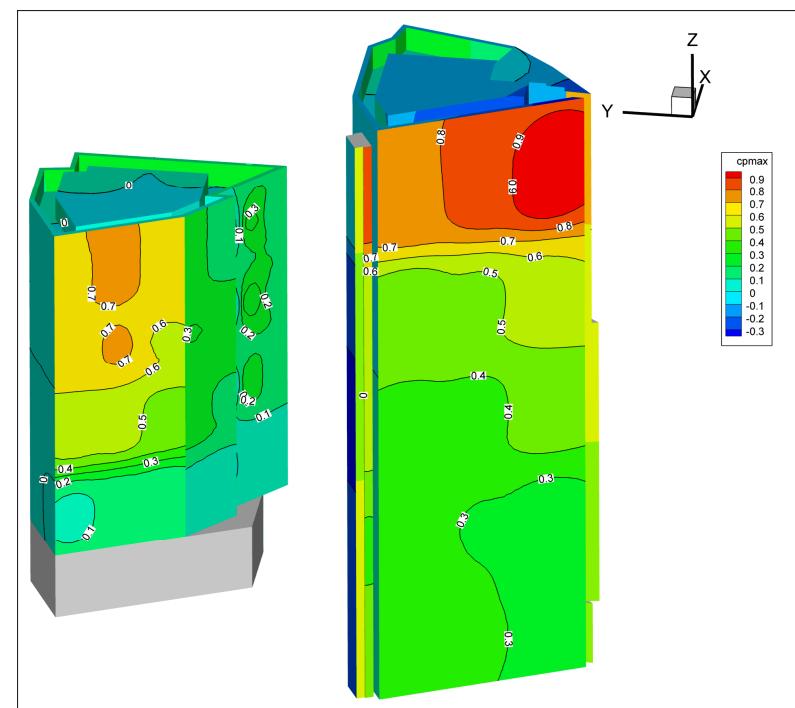
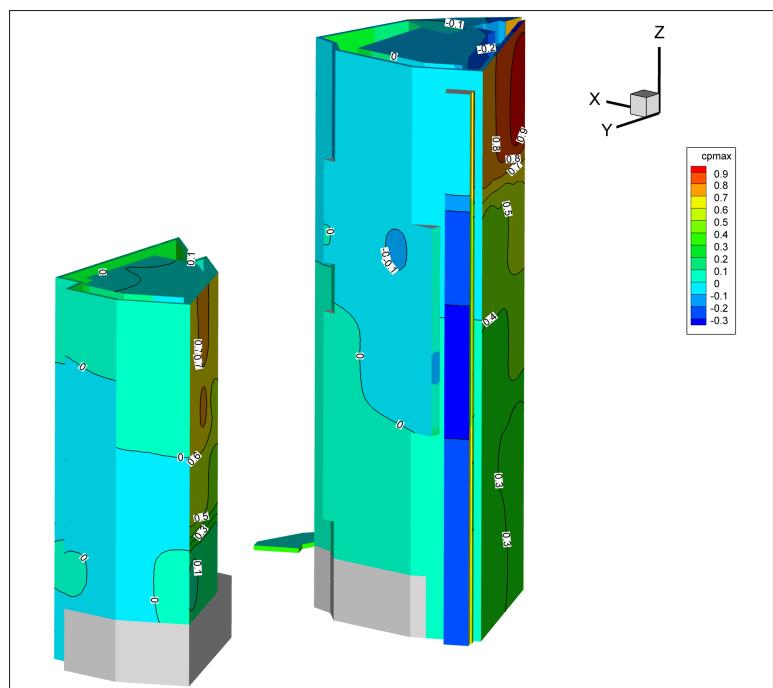
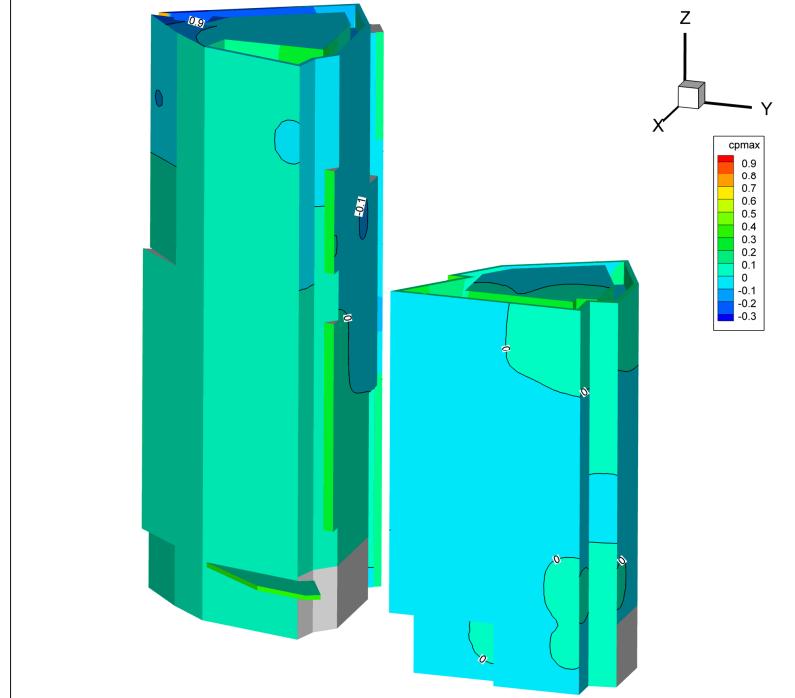
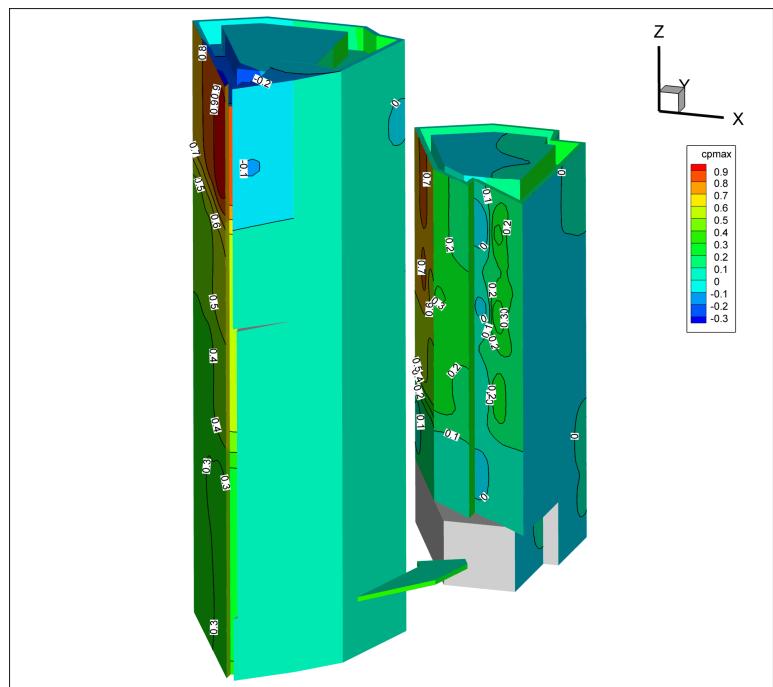
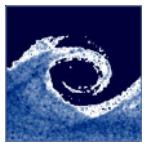


FIG. 7.20. Slab and low building in a gradient wind velocity.

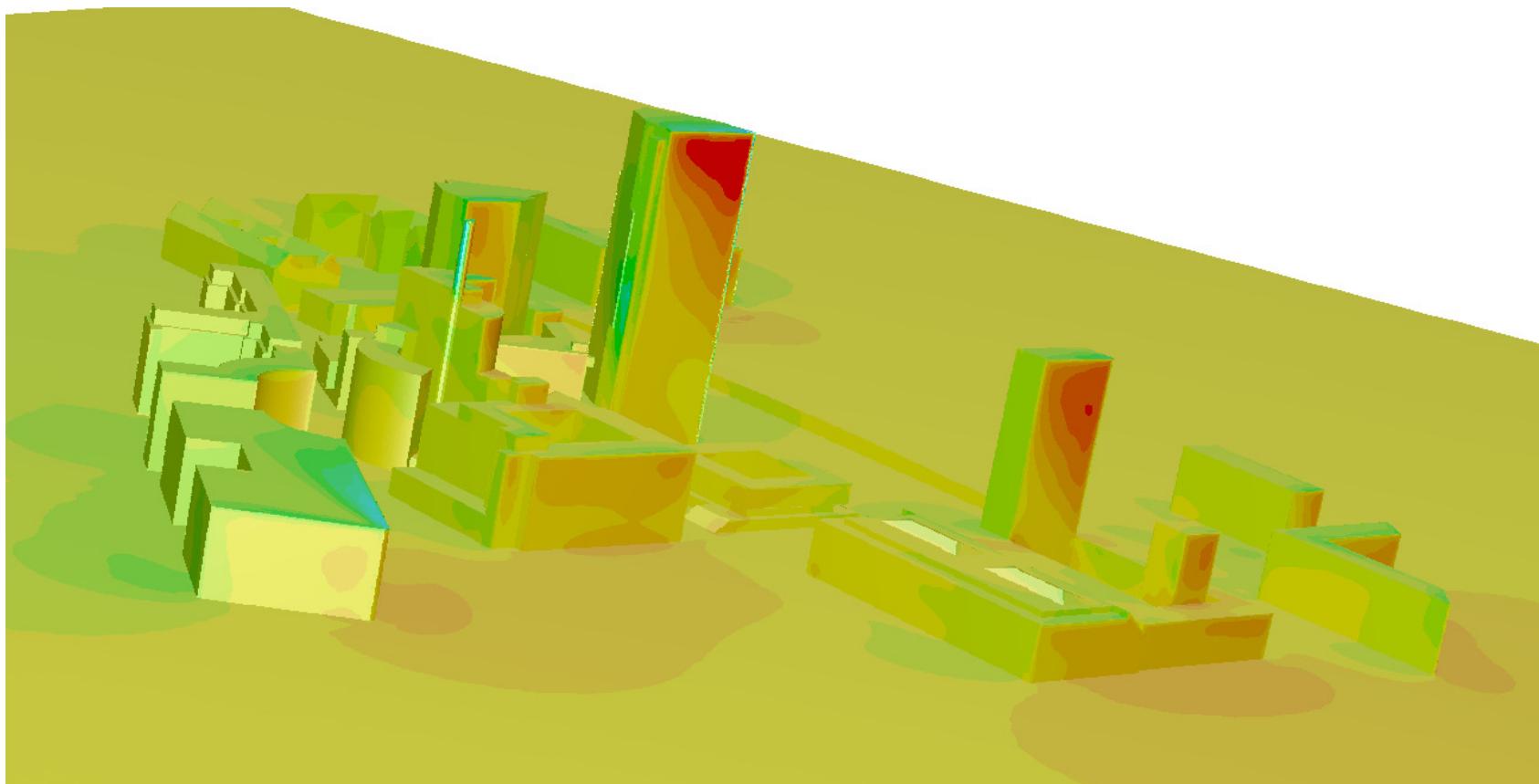
A Raiffeisen tornyok szélcsatorna vizsgálata

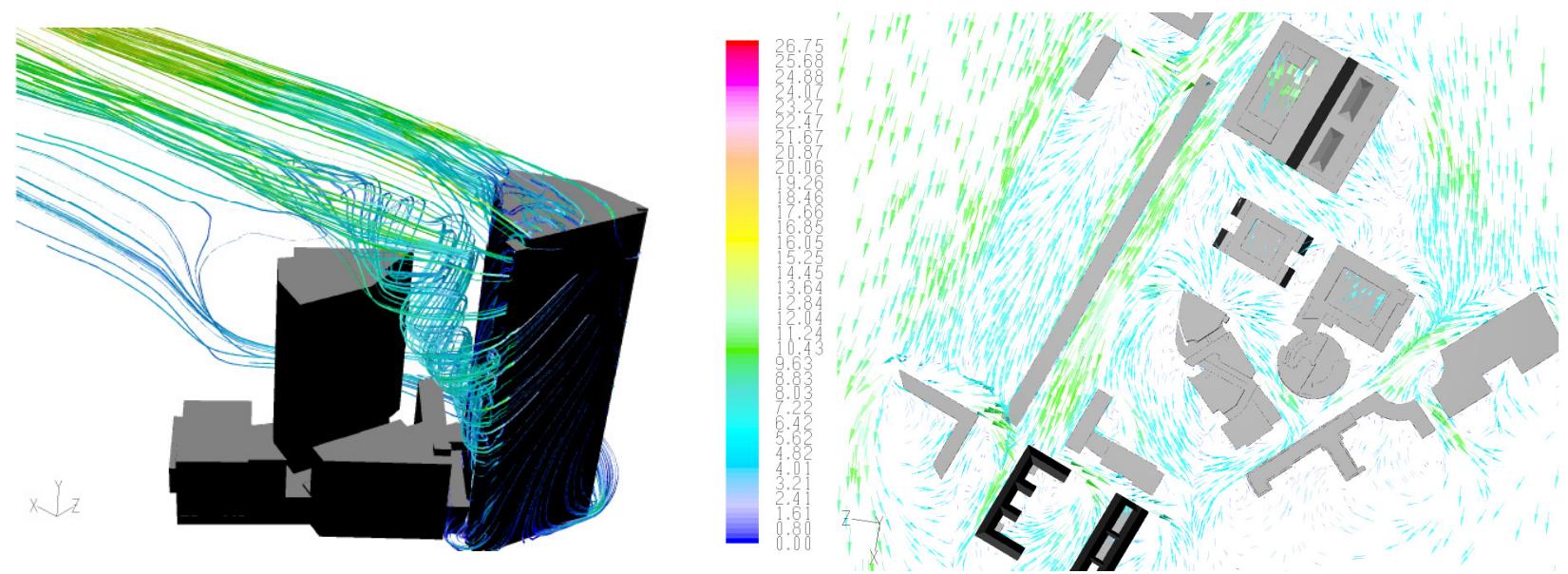
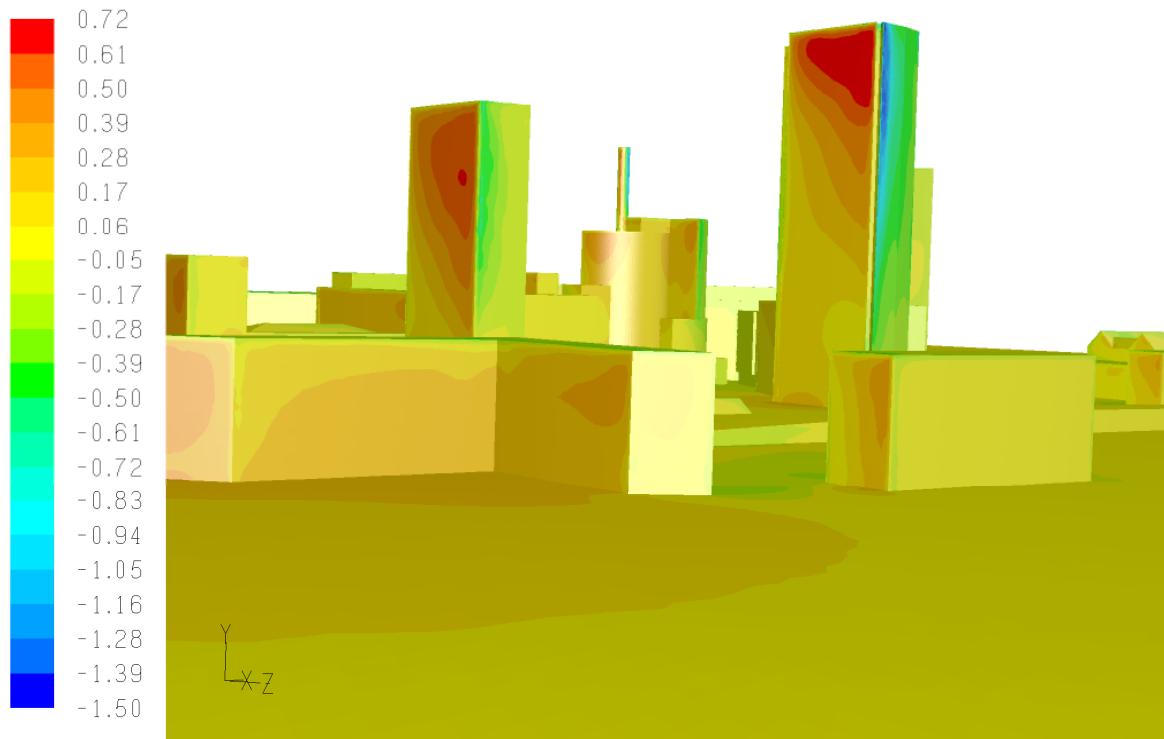




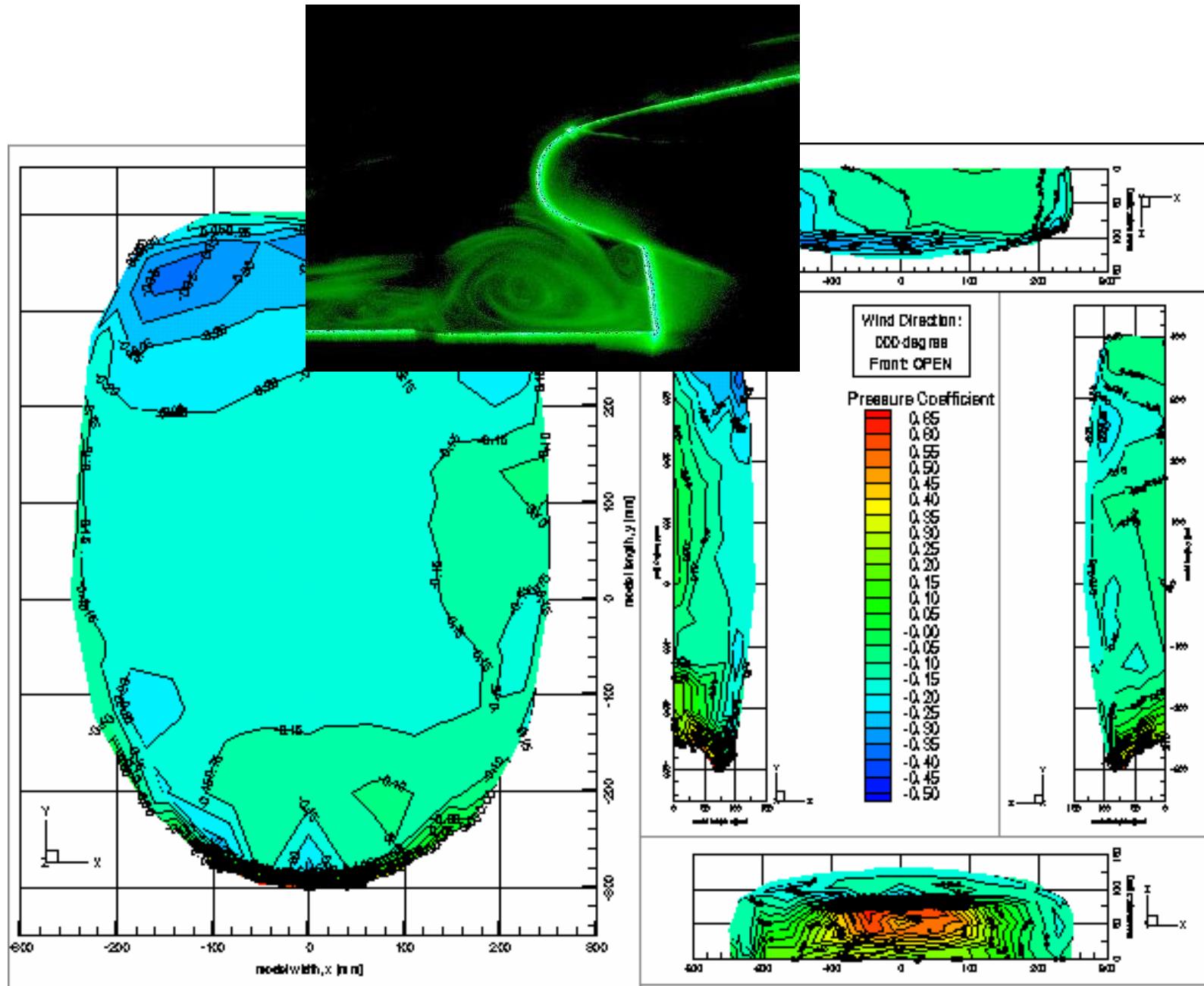


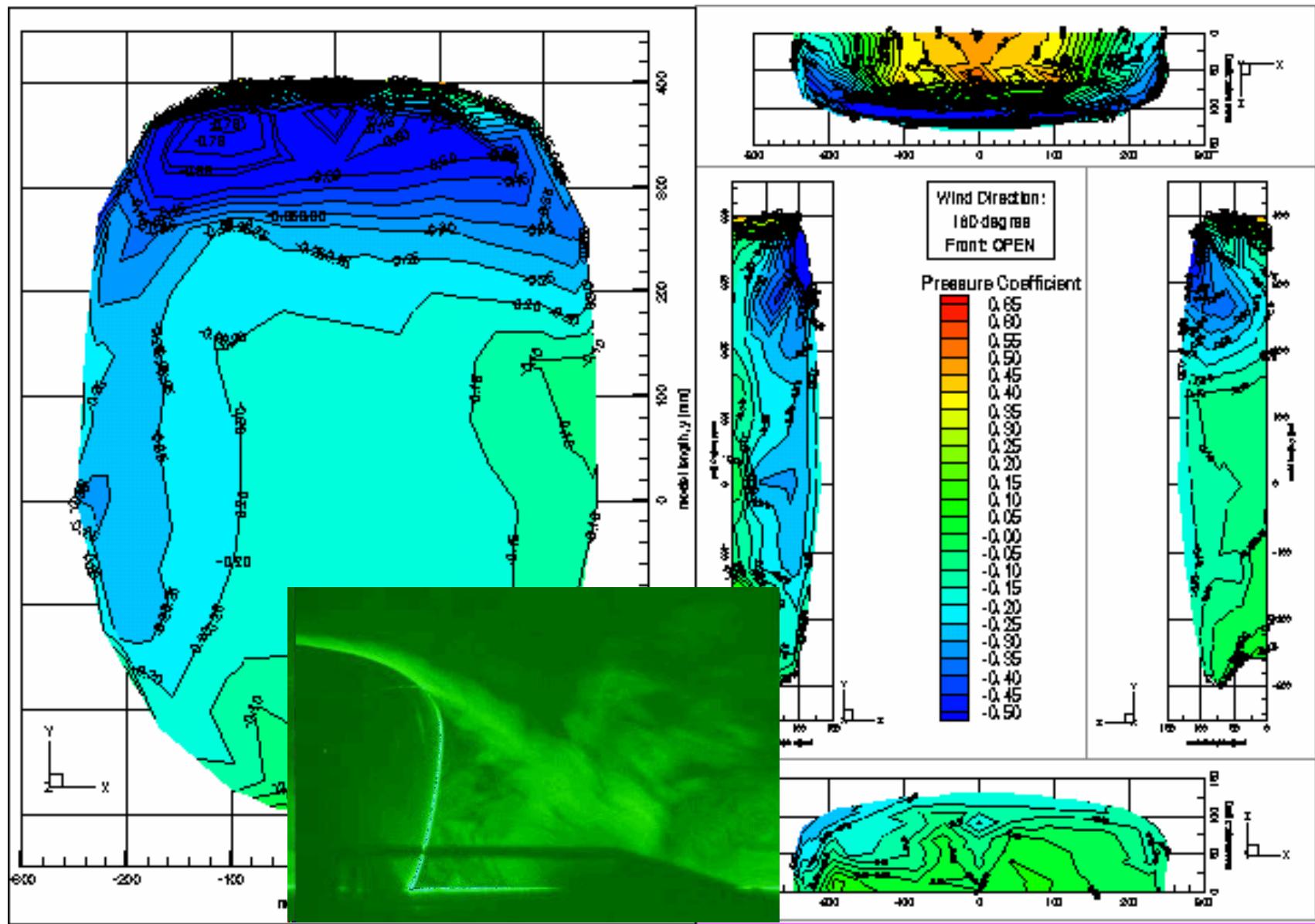
Az áramlás numerikus szimulációja

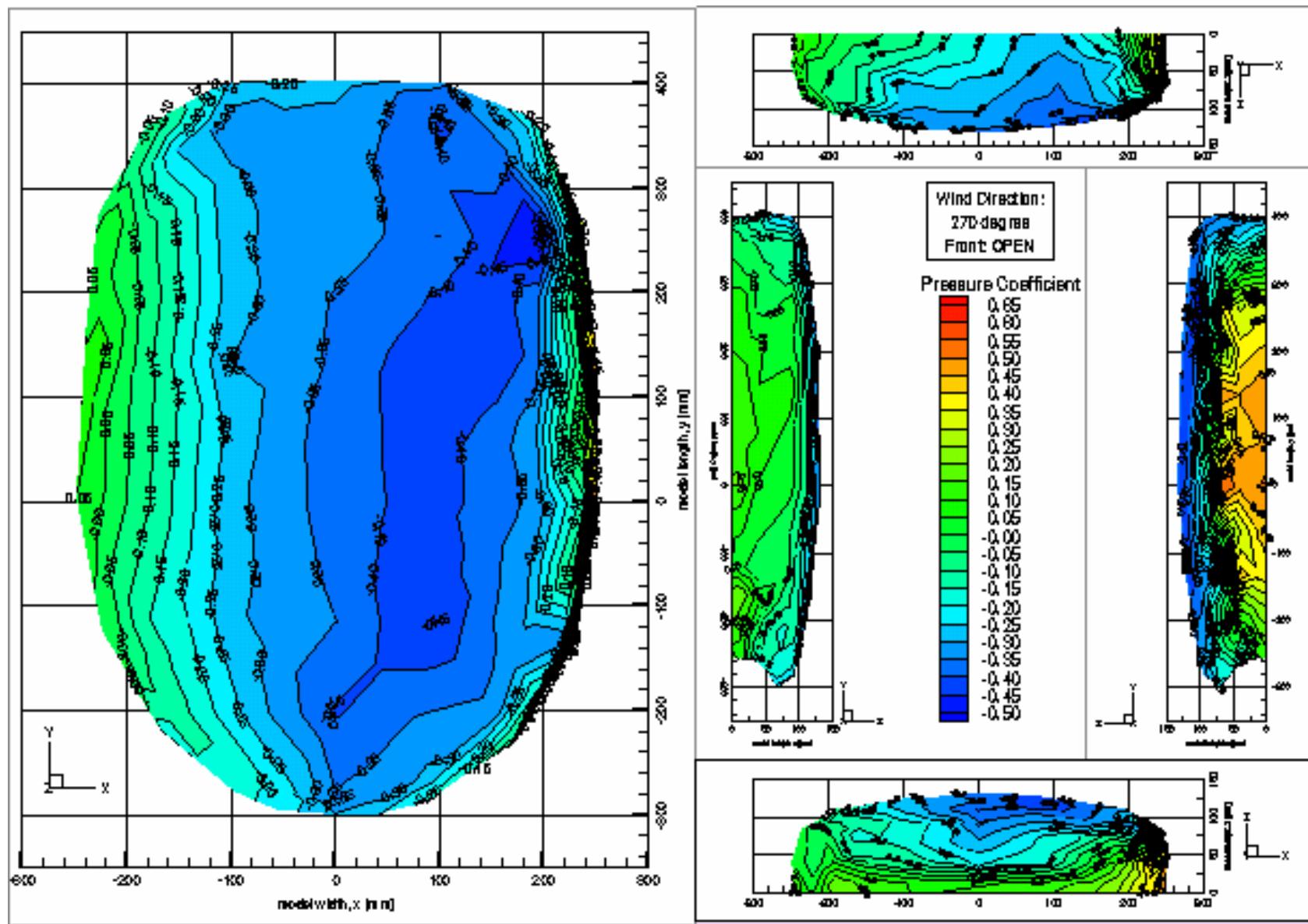






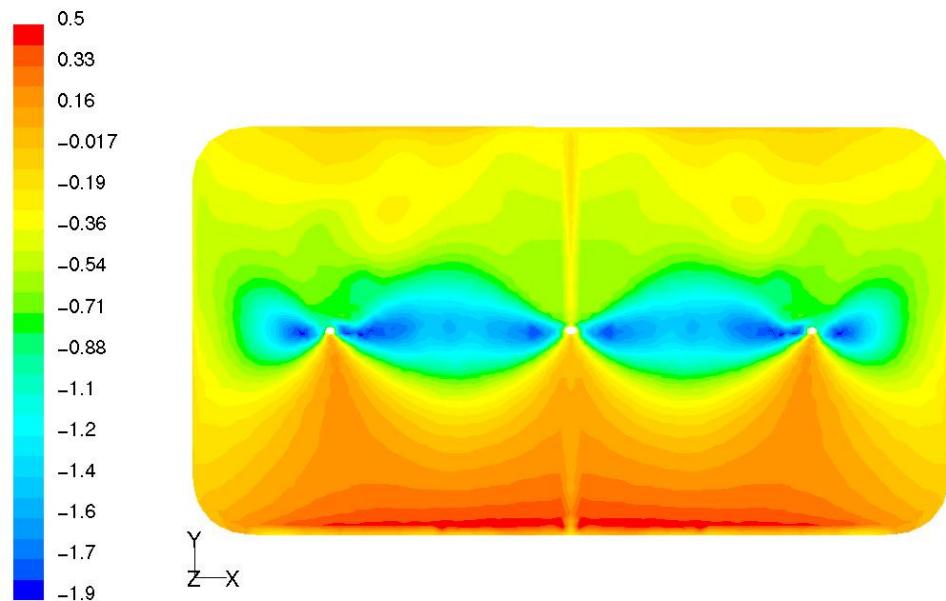




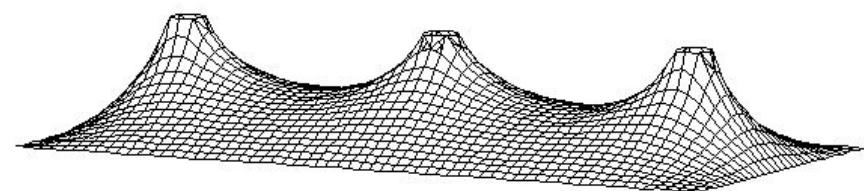


Ice-Stadium in Essen, Germany

(Mertha Ing. Büro)



May 21, 2002
FLUENT 6.0 (3d, segregated, rke)



Calculated and measured pressure distributions

