

Supplementary information

January 19, 2012

We provide lookup tables of numerically calculated static advancing contact angles for material contact angles respectively $\theta_0 = 50^\circ$, $\theta_0 = 52.5^\circ$, $\theta_0 = 55^\circ$, $\theta_0 = 60^\circ$, $\theta_0 = 70^\circ$, $\theta_0 = 80^\circ$, $\theta_0 = 90^\circ$, $\theta_0 = 100^\circ$, $\theta_0 = 110^\circ$, $\theta_0 = 120^\circ$, $\theta_0 = 130^\circ$. Data are in three columns text format. The first column runs over the pillar spacing W/D , the second column runs over the aspect ratios H/W while the third column reports the calculated static advancing angles. Respective color plots are collected in figure 1.

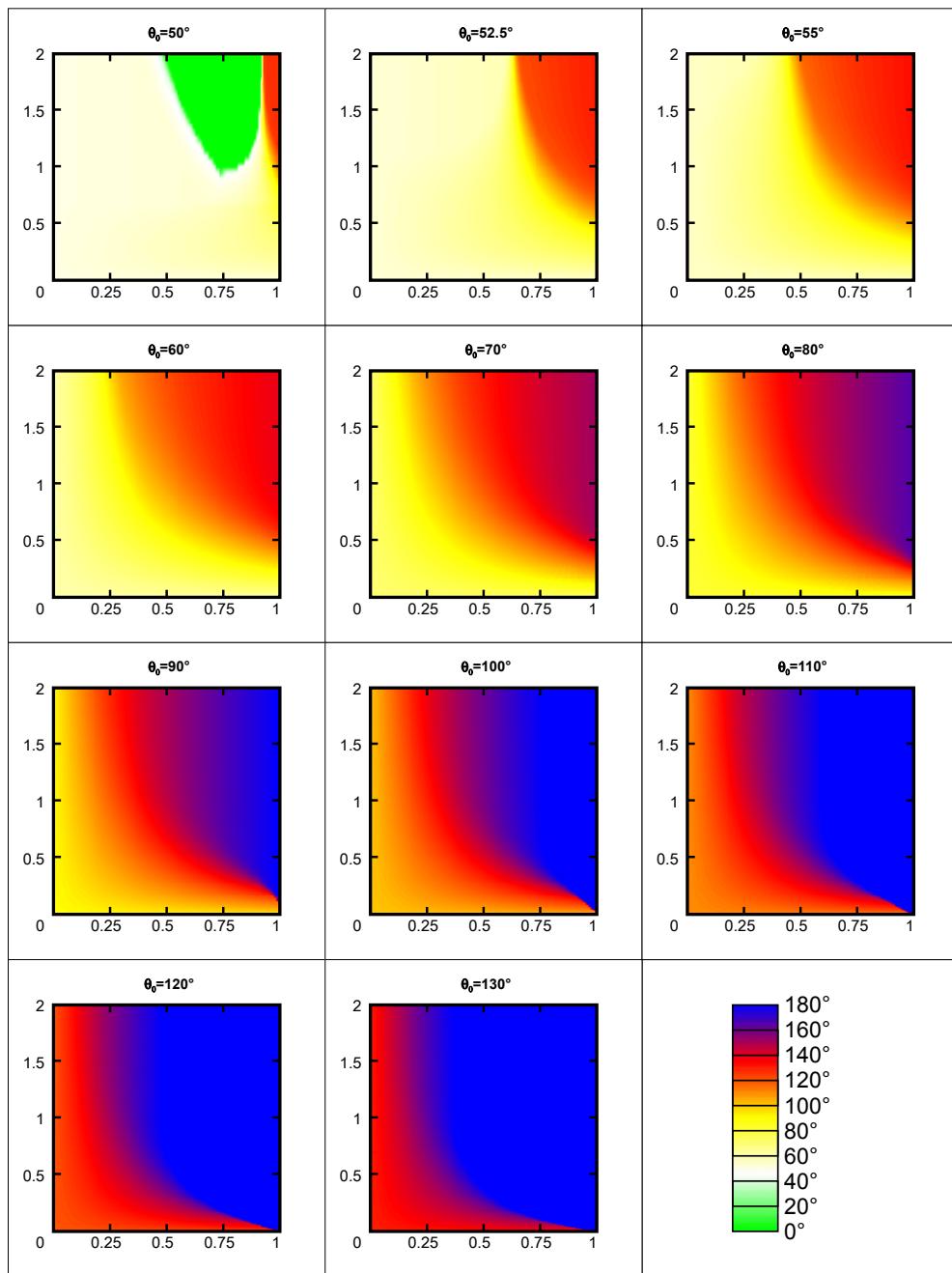


Figure 1: Color plots for: $\theta_0 = 50^\circ$, $\theta_0 = 52.5^\circ$, $\theta_0 = 55^\circ$, $\theta_0 = 60^\circ$, $\theta_0 = 70^\circ$, $\theta_0 = 80^\circ$, $\theta_0 = 90^\circ$, $\theta_0 = 100^\circ$, $\theta_0 = 110^\circ$, $\theta_0 = 120^\circ$, $\theta_0 = 130^\circ$.