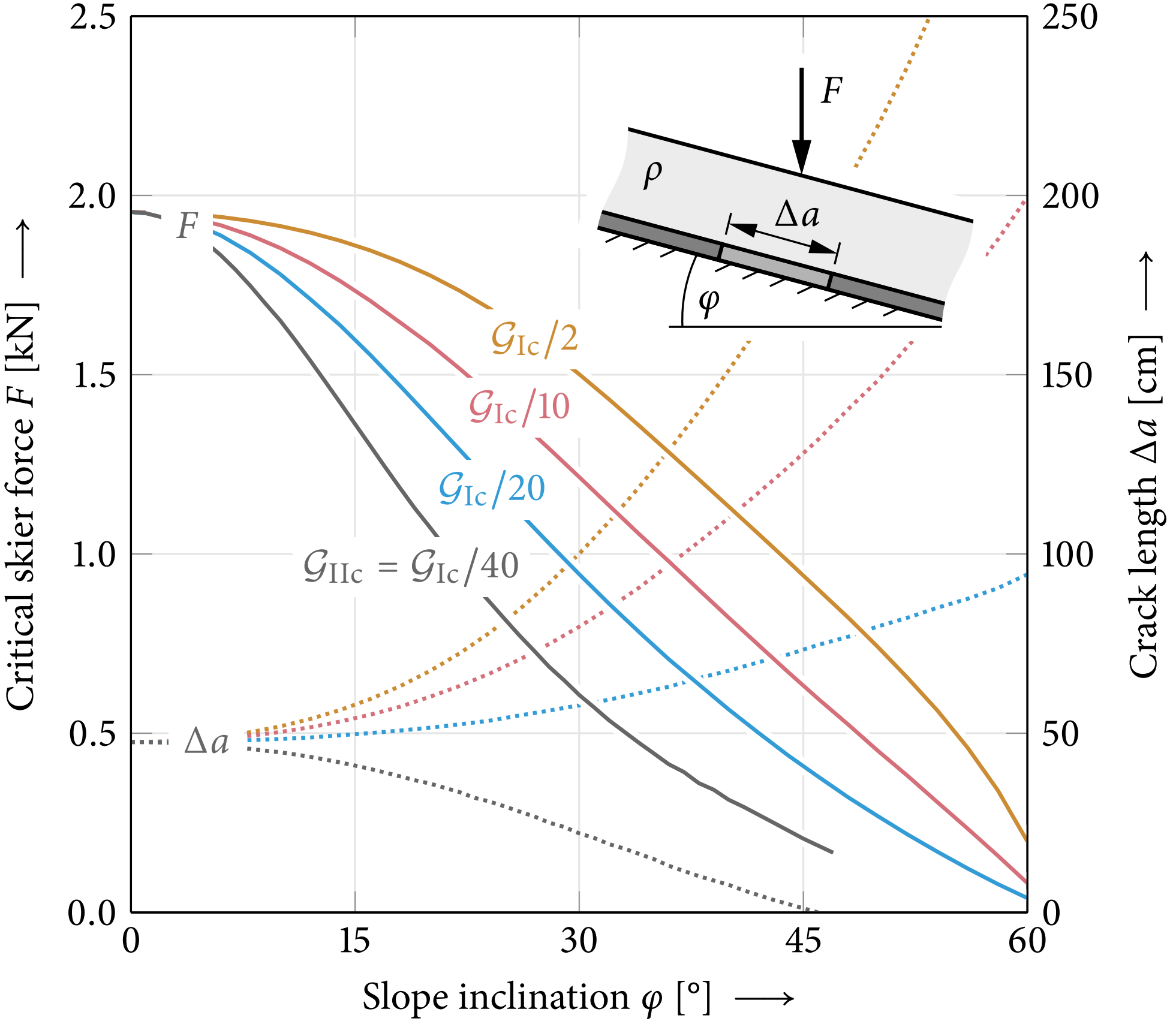
2.5
2.0
1.5
1.0
0.5
0.0
250
200
150
100
50
0
0
15
30
45
60
Critical skier force F [kN] ⟶
Crack length Δa [cm] ⟶
Slope inclination φ [°] ⟶
F
Δa
$\mathcal{G}_{\mathrm{Ic}}/2$
$\mathcal{G}_{\mathrm{Ic}}/10$
$\mathcal{G}_{\mathrm{Ic}}/20$
$\mathcal{G}_{\mathrm{IIc}} = \mathcal{G}_{\mathrm{Ic}}/40$
F
ρ
Δa
φ