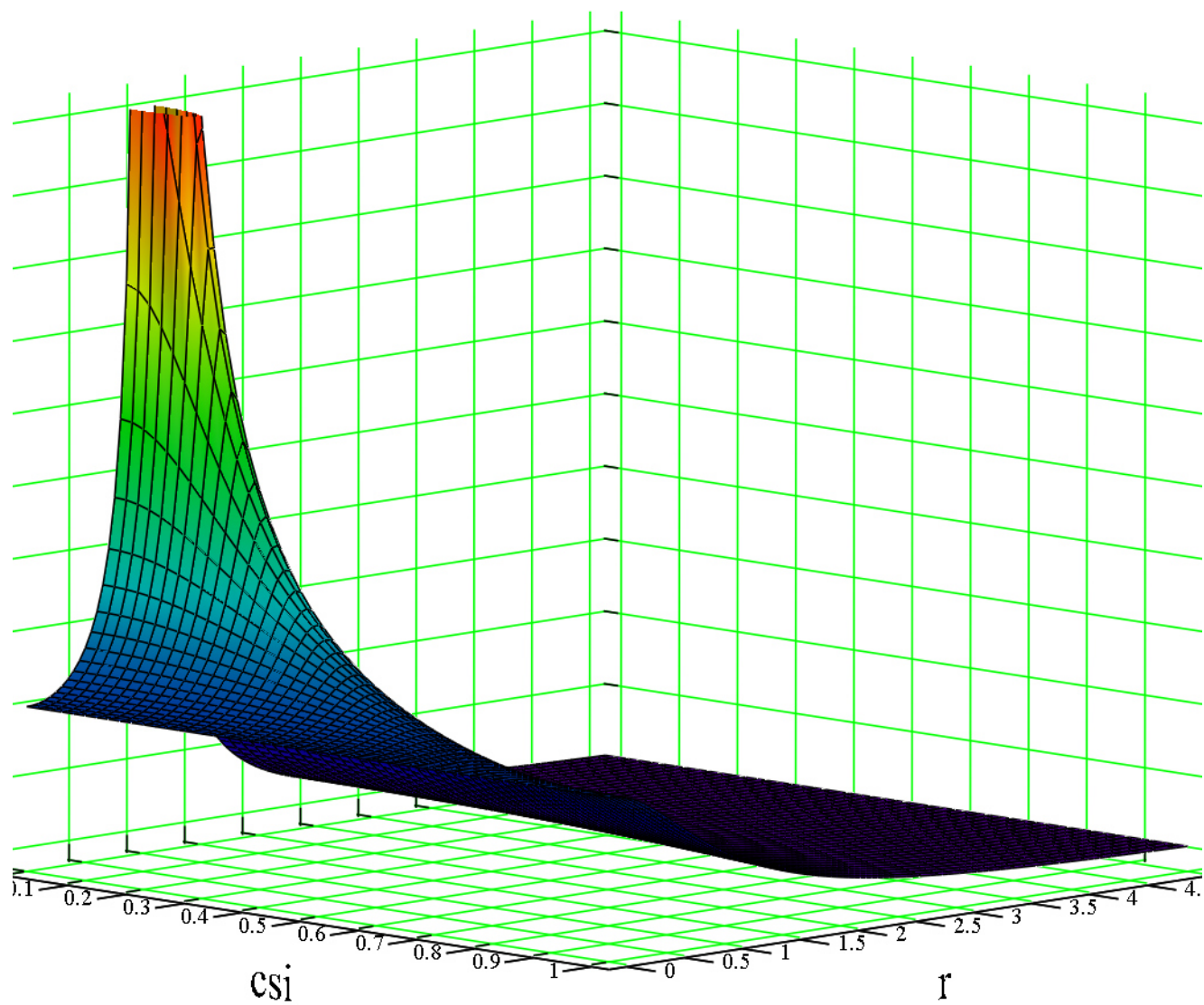


Risposta in frequenza (grafici 3D)

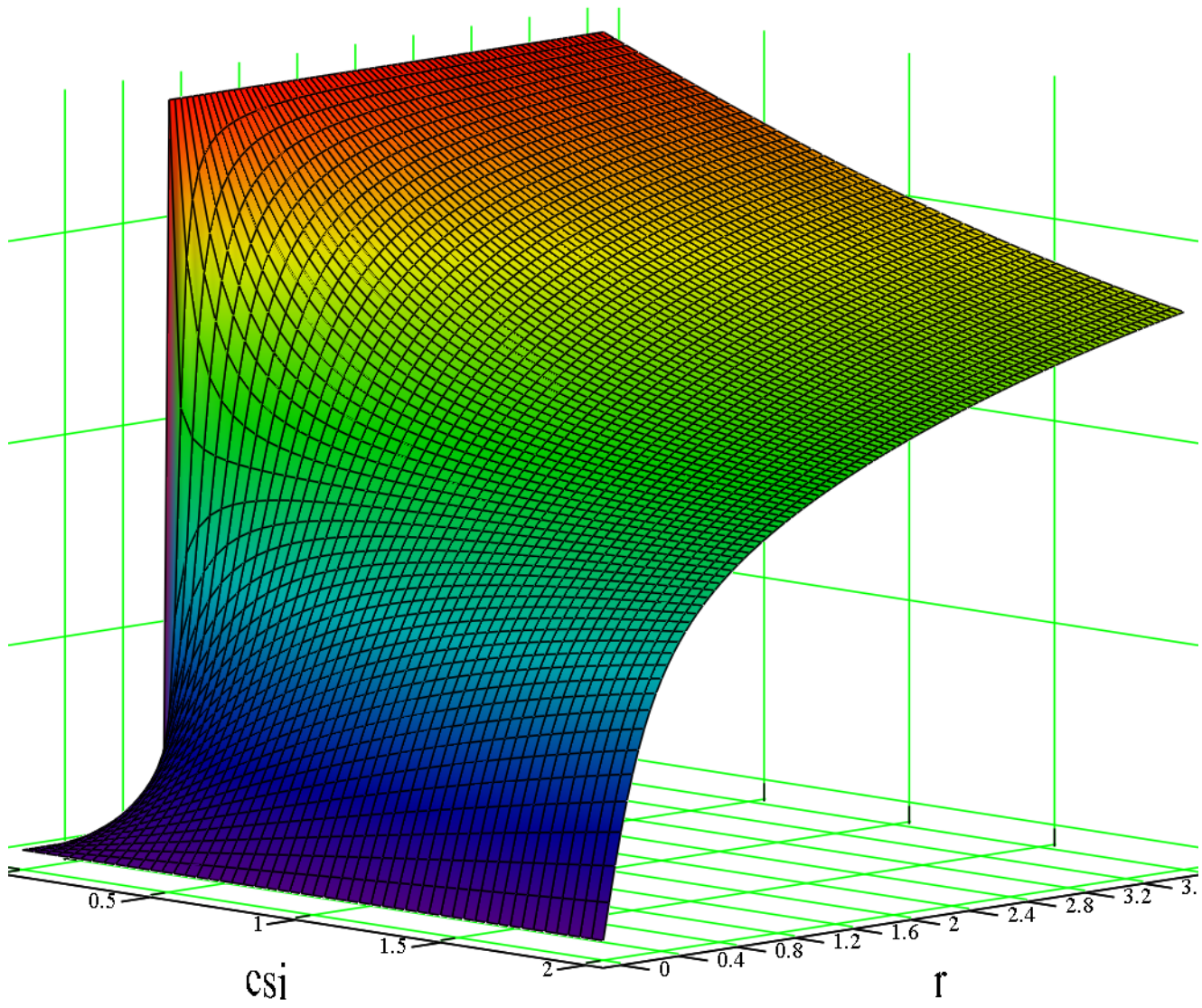
Caso n.1 - Forzante impressa

$$f_1(\xi, r) := \frac{1}{\sqrt{(1-r^2)^2 + (2 \cdot \xi \cdot r)^2}}$$

$$\varphi_1(\xi, r) := \frac{\text{atan2}[(1-r^2), (2 \cdot \xi \cdot r)]}{\text{deg}}$$



f_1

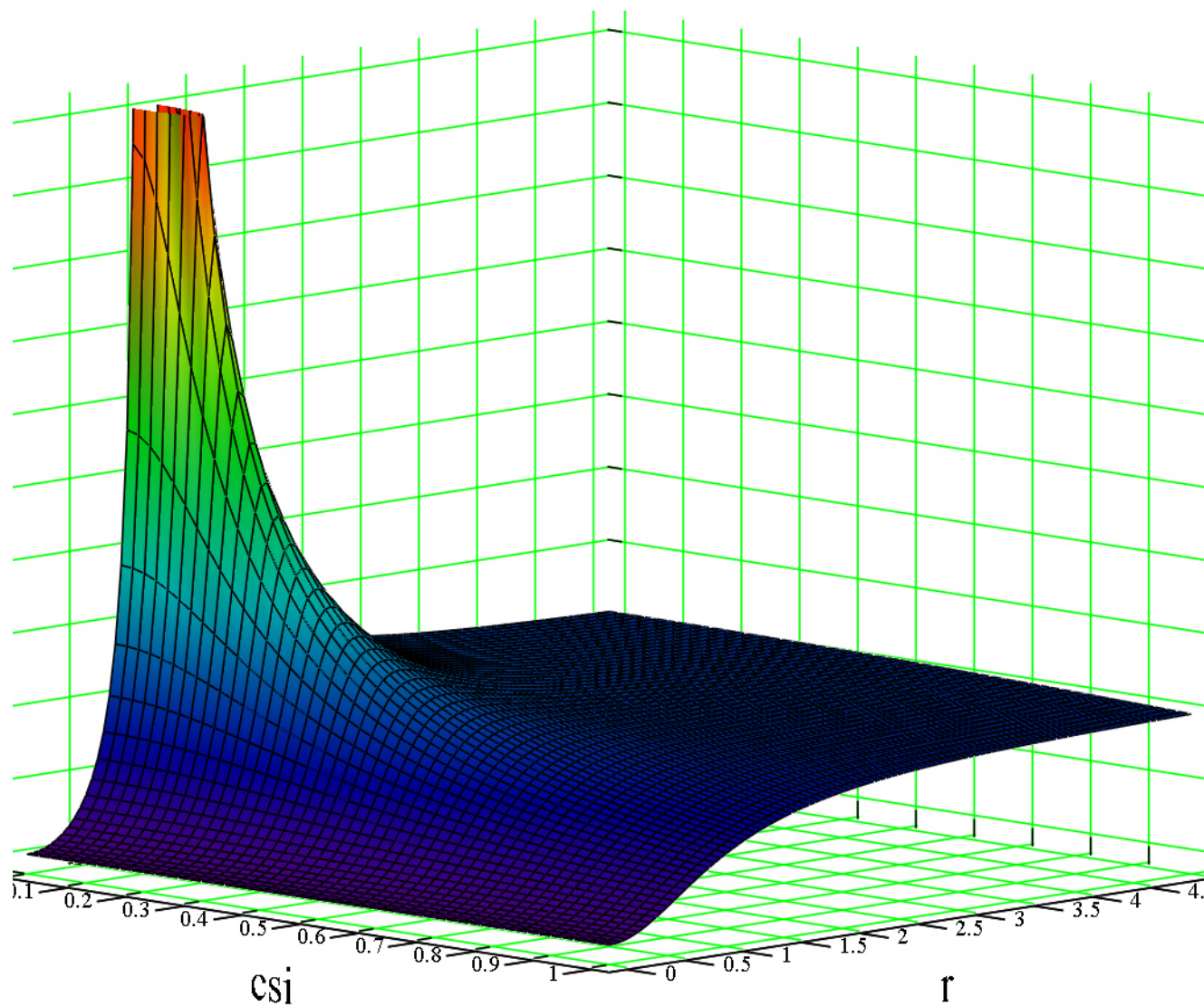


φ_1

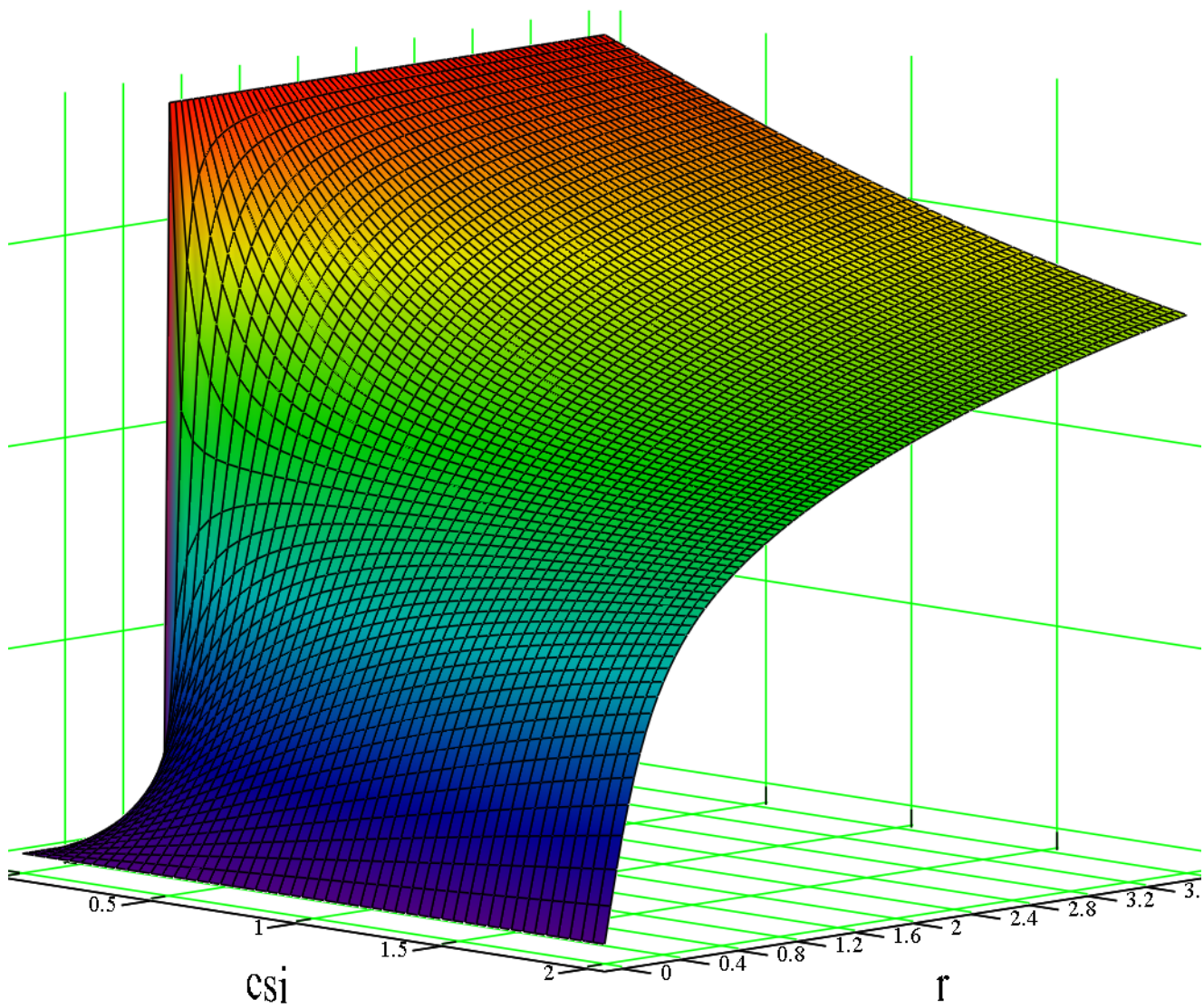
Caso n.2 - Forzante inerziale

$$f_2(\xi, r) := \frac{r^2}{\sqrt{(1-r^2)^2 + (2 \cdot \xi \cdot r)^2}}$$

$$\varphi_2(\xi, r) := \frac{\text{atan2}[(1-r^2), (2 \cdot \xi \cdot r)]}{\text{deg}}$$



f_2

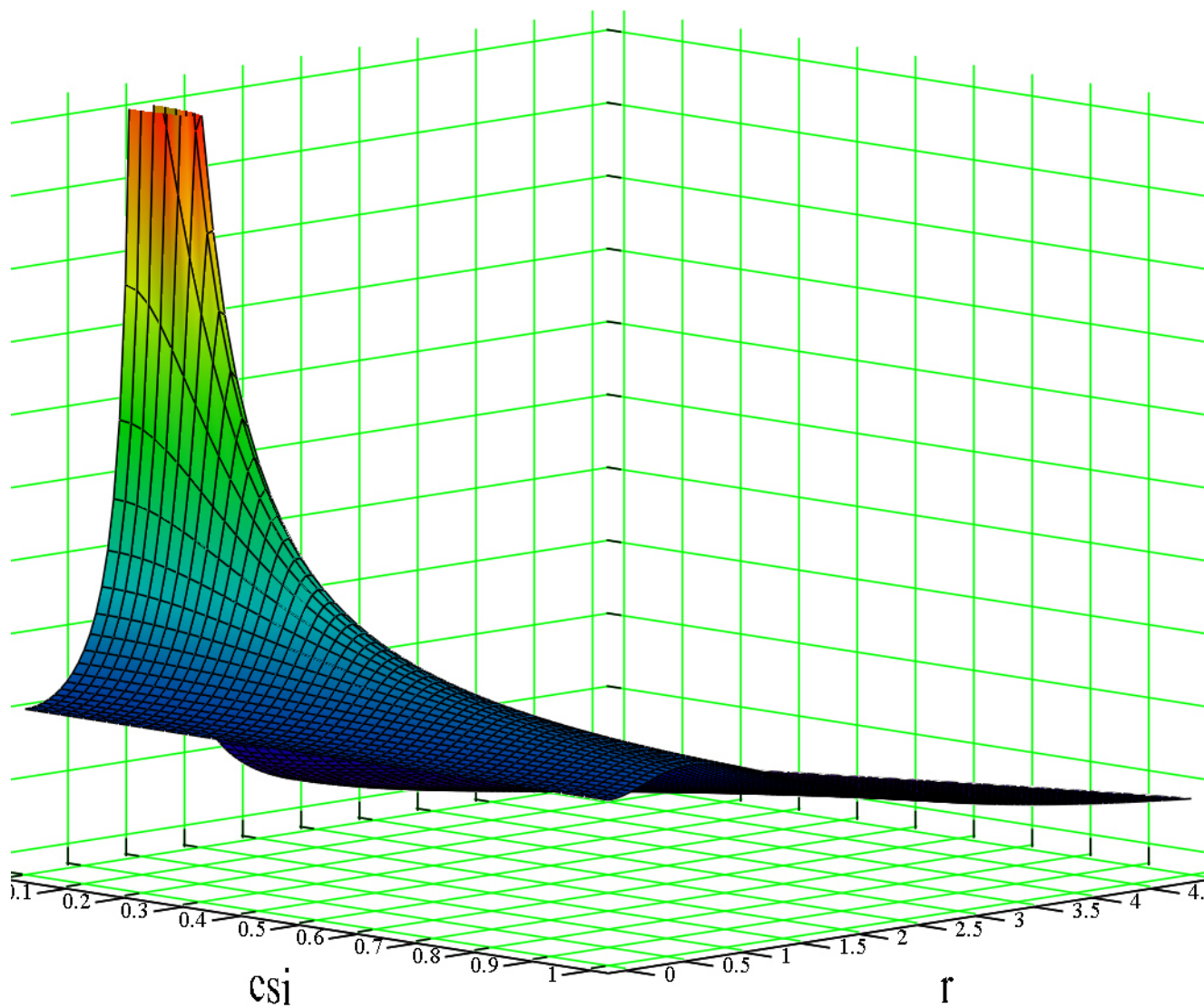


φ_2

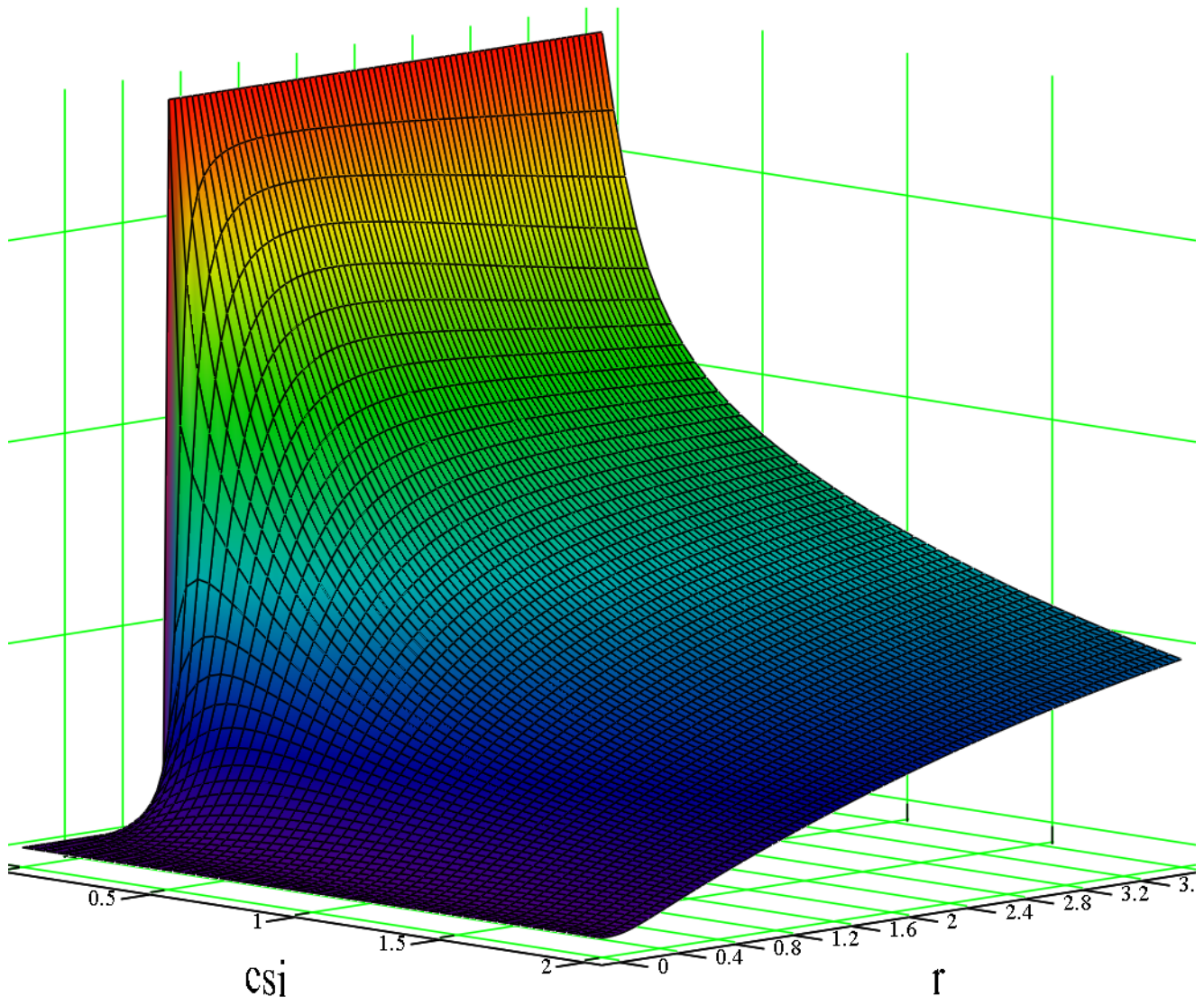
Caso n.3 - Spostamento vincolare

$$f_3(\xi, r) := \frac{1 + (2 \cdot \xi \cdot r)^2}{\sqrt{(1 - r^2)^2 + (2 \cdot \xi \cdot r)^2}}$$

$$\varphi_3(\xi, r) := \frac{\text{atan2}\left[\left[1 + (4 \cdot \xi^2 - 1) \cdot r^2\right], (2 \cdot \xi \cdot r^3)\right]}{\text{deg}}$$



f_3



$\varphi.3$