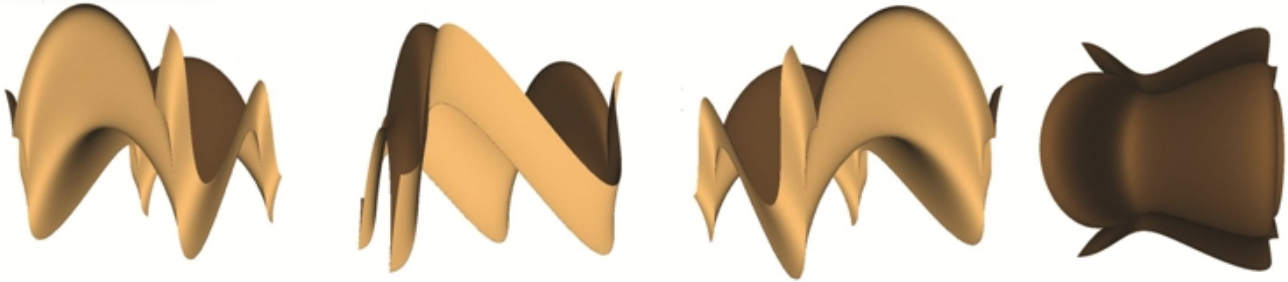


MATEMATIKA U ARHITEKTURI 2

Arhitektonski fakultet Univerziteta u Beogradu; Prof. dr Ljiljana Petruševski; Student Nina Kljajević, 2011/187

TRANSLATORNE POVRŠI

Translatorna površ se dobija pomeranjem krive generatrise paralelno samoj sebi po krivoj direktrisi ili obrnuto.



Cosinus

$$\begin{aligned}x &= \sin(u) + \sin(u) \\y &= u + \cos(u) \\z &= 1\end{aligned}$$

$$0 \leq u \leq 3\pi$$

Sinus

$$\begin{aligned}x &= \cos(v) + \cos(v) \\y &= 1 \\z &= v + \cos(v)\end{aligned}$$

$$0 \leq v \leq 3\pi$$

Jedno od mogućih rešenja primene translatorskih površi kao instalacija u javnom gradskom prostoru.



Programi korišćeni za izradu plakata: K3D Surf, Inkscape i Adobe Photoshop 7.0

Faculty of Architecture, University of Belgrade; Prof. Ljiljana Petruševski, PhD; Student Nina Kljajević, 2011/187

e-Learning support Mirjana Devetaković, MSc; Virtual learning environment for the course <http://elearning.amres.ac.rs/moodle/course/view.php?id=170>

MATHEMATICS IN ARCHITECTURE 2