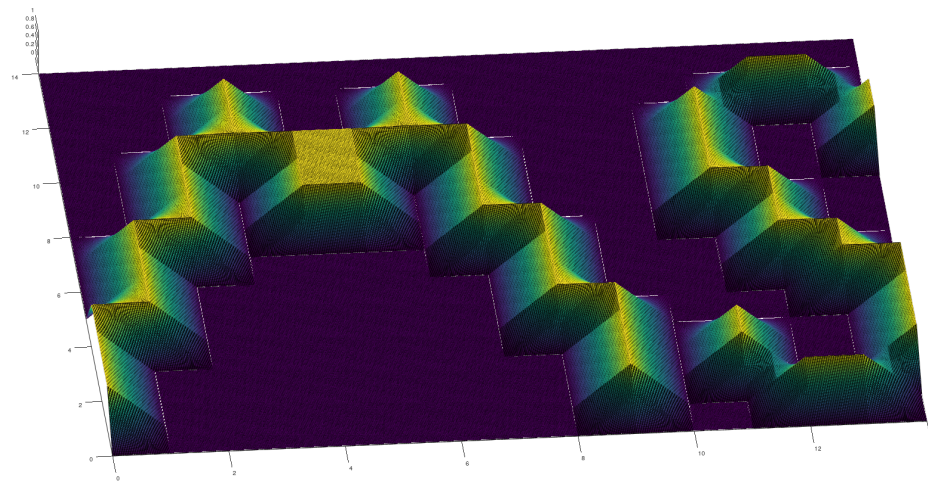


[CAD CAE] Lab 2

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▼ Odlew wynikowy



▼ Zmodyfikowane części kodu

```
knot_vectorx=[ 0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 14 ]  
knot_vectorx=[ 0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 14 ]  
precision = 0.001
```

```
%X and Y coordinates of points over the 2D mesh  
[X,Y]=meshgrid(x,y);  
  
grid_size = 1/precision + 1  
  
sum = zeros(grid_size,grid_size);  
  
coeff = [  
    [0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]  
    [0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]  
    [0 0 0 1 0 0 1 0 0 0 0 0 1 1 0]  
    [0 0 0 1 0 0 1 0 0 0 0 1 0 0 1]  
    [0 0 1 1 1 1 1 1 0 0 0 1 0 0 1]  
    [0 0 1 0 1 1 0 1 0 0 0 1 0 0 0]  
    [0 0 1 0 1 1 0 1 0 0 0 1 1 0 0]  
    [0 1 1 0 0 0 0 1 1 0 0 0 1 0 0]
```

```

        [0 1 0 0 0 0 0 0 0 1 0 0 0 1 1 0]
        [0 1 0 0 0 0 0 0 0 1 0 0 0 0 1 1]
        [1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 1]
        [1 0 0 0 0 0 0 0 0 1 0 1 0 0 0 1]
        [1 0 0 0 0 0 0 0 0 1 0 1 0 0 0 1]
        [1 0 0 0 0 0 0 0 0 1 0 0 1 1 0]
        [0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
    ];

    hold on
    for i=1:nrx
        %compute values of
        vx=compute_spline(knot_vectorx,px,i,X);
        for j=1:nry
            vy=compute_spline(knot_vectory,py,j,Y);
            sum = sum + coeff(nrx-j+1,i) * vx.*vy;
        end
    end
    surf(X,Y,sum);
    hold off

```