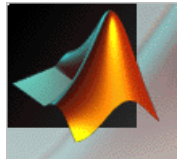


Bemerkung 3.32: Trigonometrische Funktionen

$\cos mx$ für $x = 1.0 \text{E} - 4$



see
[numstab.m](#)

```
x = 1.0e-4;  
cx = cos(x);    sx2q = sin(x/2)^2;  
  
c3 = zeros ( mmax, 1 );  
c3(1) = 1.0;   c3(2) = cx;  
for i=3:mmax,  
c3(i) = 2*cx * c3(i-1) - c3(i-2);  
end;  
  
c2  = zeros ( mmax, 1 );  
cdel = zeros ( mmax, 1 );  
c2(1) = 1.0; c2(2) = cx; cdel(1) = -2*sx2q;  
for i=2:mmax-1,  
    cdel(i) = -4*sx2q * c2(i) + cdel(i-1);  
    c2(i+1) = c2(i) + cdel(i);  
end;
```

Rekursive Auswertung von $\cos(mx)$ fuer $x = 1.0\text{e-}004$

