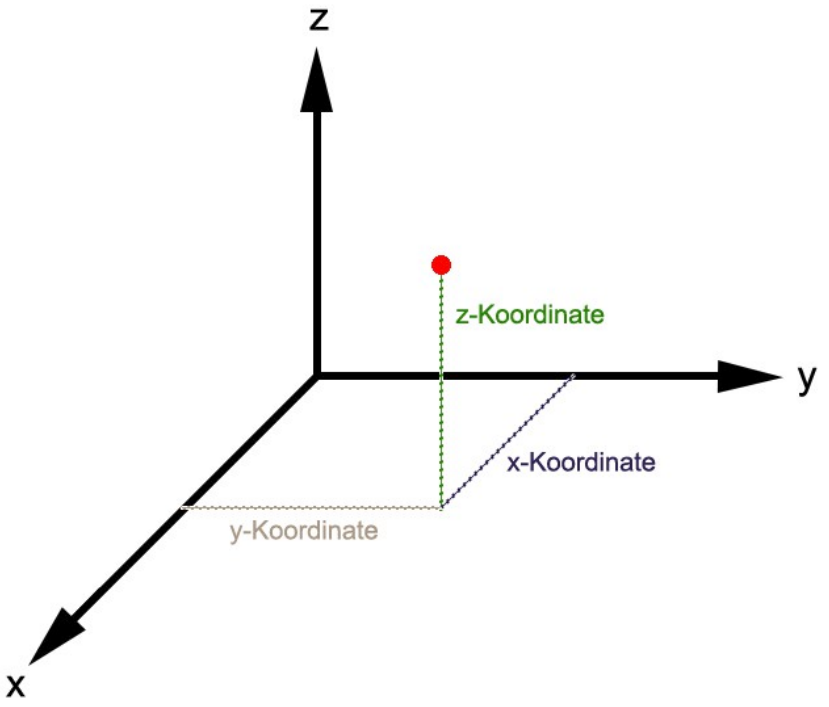
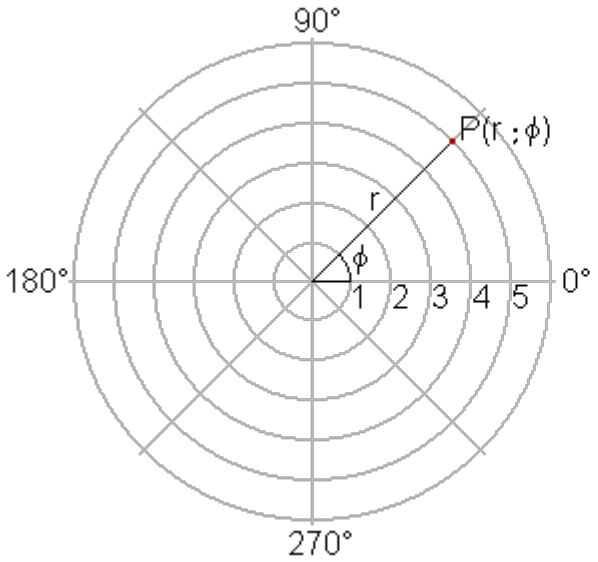
Einführung

- Koordinatensysteme
- Meshgrids

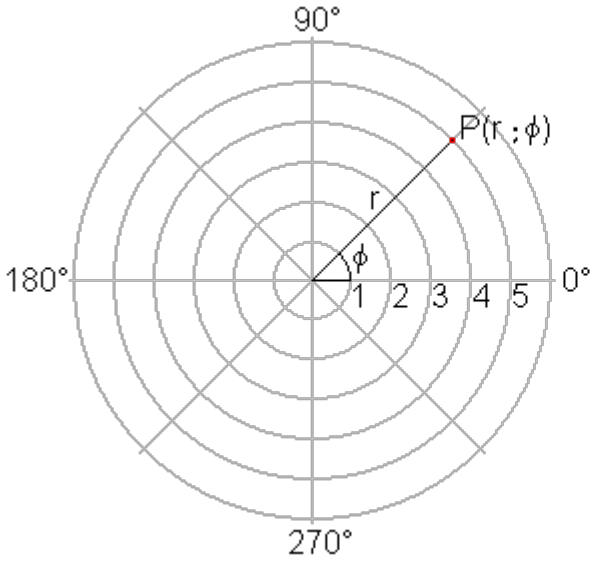
Kartesische Koordinaten

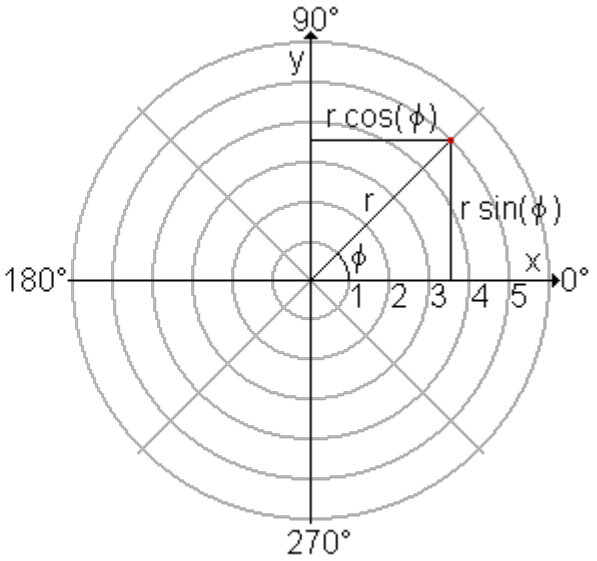


Polarkoordinaten



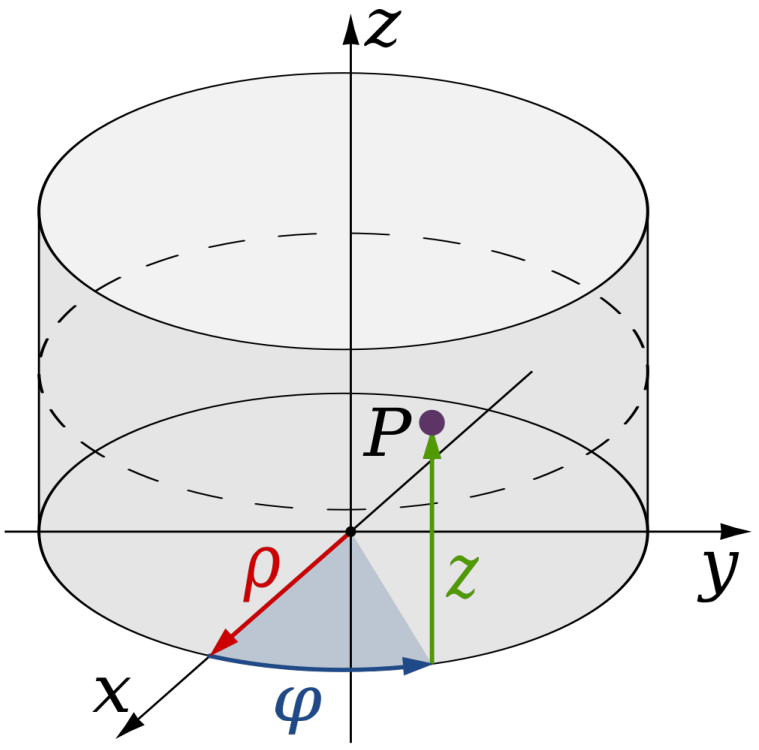
Polarkoordinaten





$$x = r\cos\varphi$$
$$y = r\sin\varphi$$

Zylinderkoordinaten



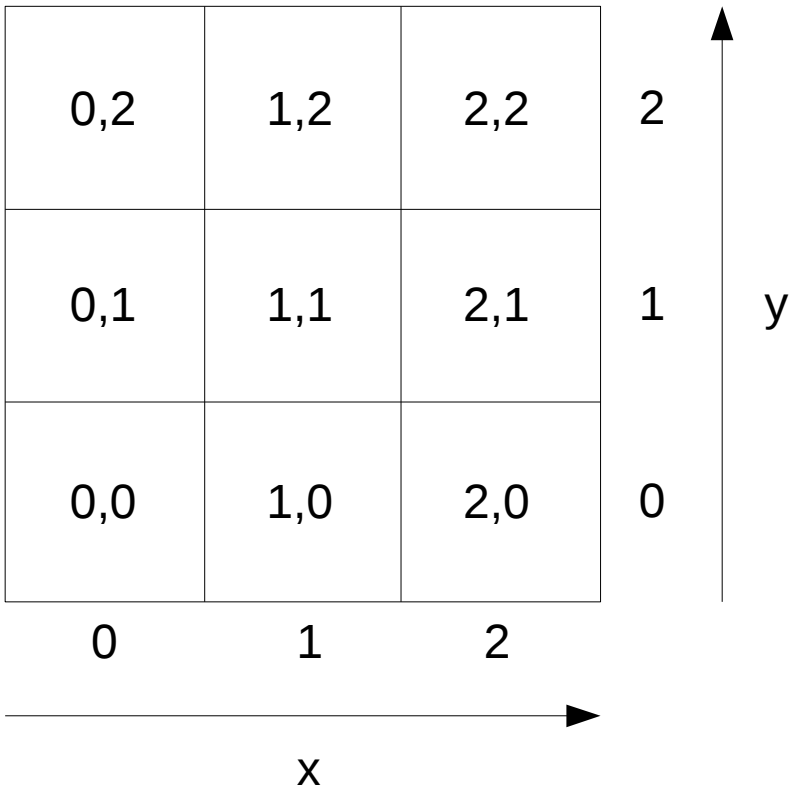
$$x = \rho \cos \varphi$$
$$y = \rho \sin \varphi$$
$$z = z$$

Meshgrid

- Einteilung einer Fläche
  in Zonen

Meshgrid

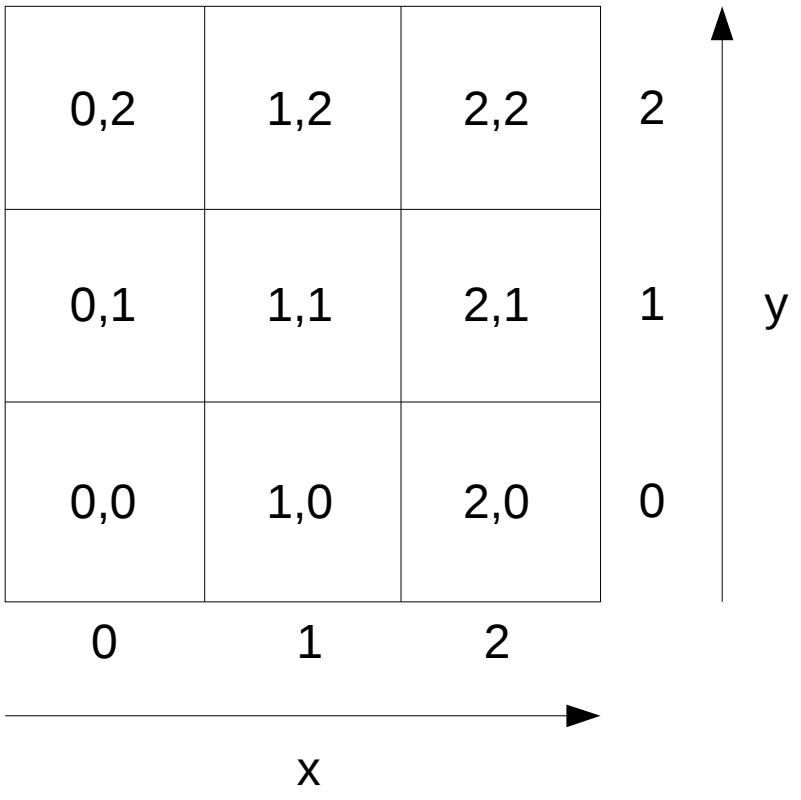
- Einteilung einer Fläche in Zonen



Meshgrid

- Einteilung einer Fläche
  in Zonen

- Diskretisierung des Raumes
  → Berechnung einer Funktion



Meshgrid

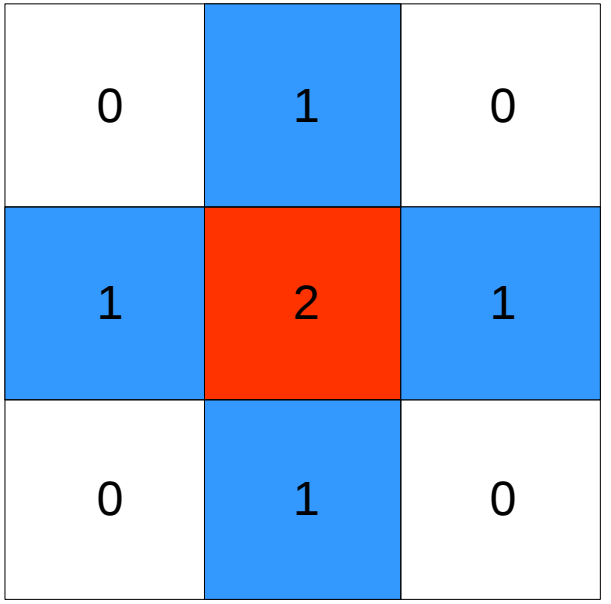
- Einteilung einer Fläche
  in Zonen

- Diskretisierung des Raumes
  → Berechnung einer Funktion

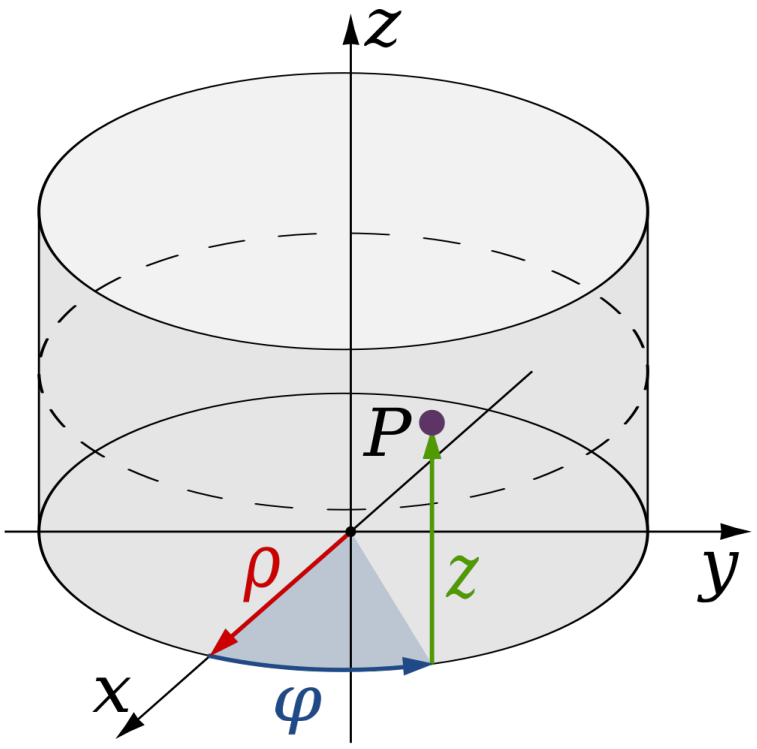
0	1	0
1	2	1
0	1	0

Meshgrid

→ Colorcoding

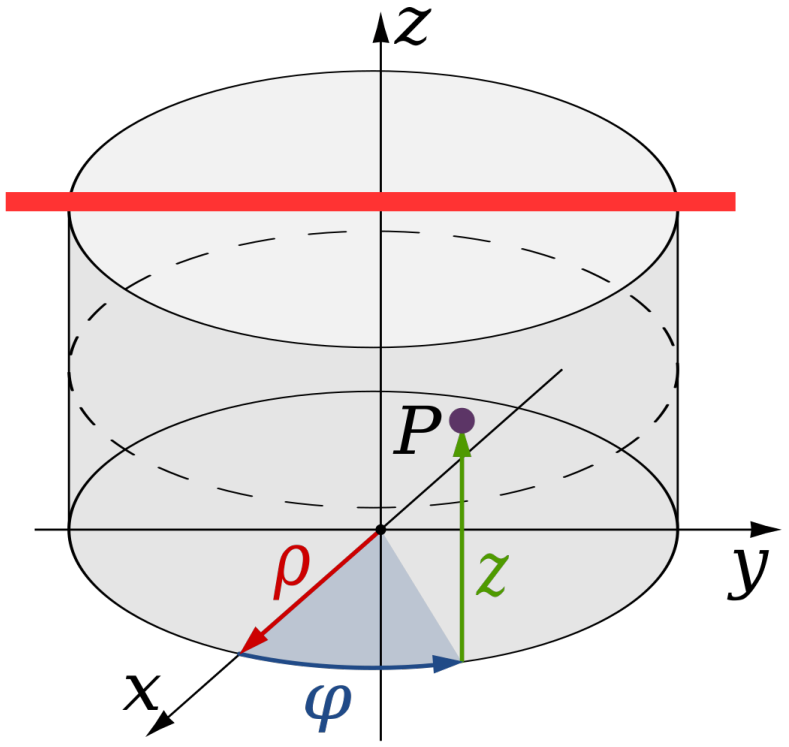


Meshgrid in Zylinderkoordinaten



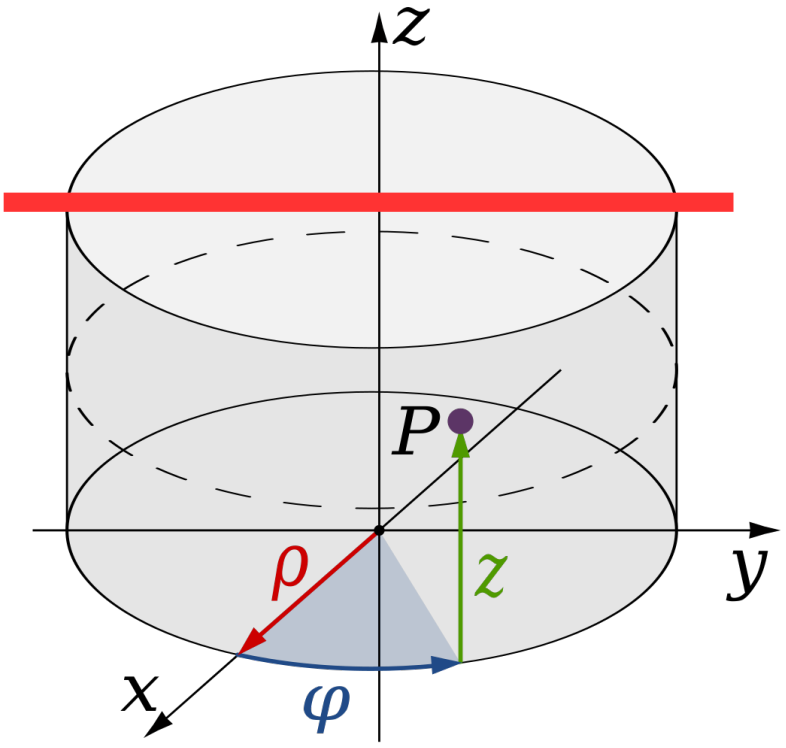
$$x = \rho \cos \varphi$$
$$y = \rho \sin \varphi$$
$$z = z$$

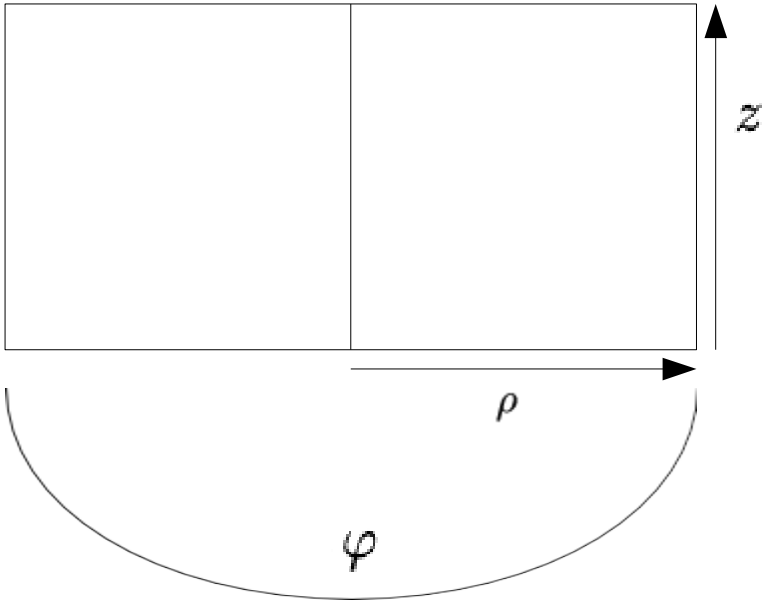
Meshgrid in Zylinderkoordinaten



$$x = \rho \cos \varphi$$
$$y = \rho \sin \varphi$$
$$z = z$$

Meshgrid in Zylinderkoordinaten





Meshgrid in Zylinderkoordinaten