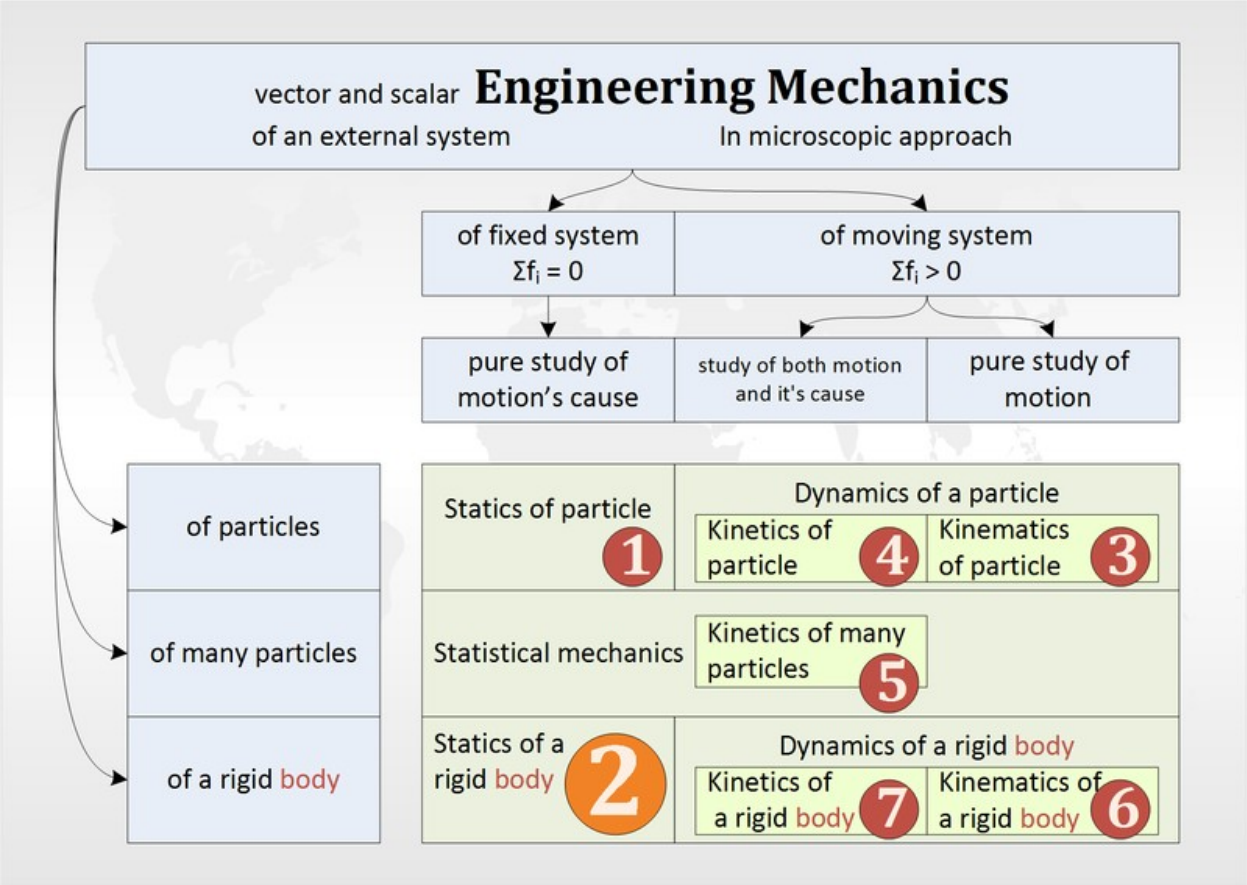

vector and scalar
of an external system
Engineering Mechanics
In microscopic approach
of fixed system
$\Sigma f_i = 0$
of moving system
$\Sigma f_i > 0$
pure study of motion's cause
study of both motion and it's cause
pure study of motion
of particles
of many particles
of a rigid body
Statics of particle
1
Dynamics of a particle
Kinetics of particle
4
Kinematics of particle
3
Statistical mechanics
Kinetics of many particles
5
Statics of a rigid body
2
Dynamics of a rigid body
Kinetics of a rigid body
7
Kinematics of a rigid body
6