**Translate and give the definitions to the terms related to topic Undercarriage:**

undercarriage

airborne

redundant

retraction

spindle

strut

shock absorber

descent

short runway length

steering mechanism

shimmy control

dynamic instability

shaft

wheels

brakes

tires

replace

folding kinematics

hydraulic actuator

electrical motor drive

bogey(bogie) system

support shaft

nose wheel

undercarriage stowage

reliability

maintainability

encompass

streamlined shroud

retain

bicycle-type undercarriage

outrigger support wheel

aircraft with skids

tail wheel

nose wheel-type tricycle undercarriage

fixed undercarriage

visibility

ground looping

telescopic strut

lever suspension

offset pivot

in-line bogey

deformable quadrilateral strut

semi-articulated strut

controlled articulation

rigid axle

CG position

wheel base

wheel tread or wheel track

forwardmost aircraft CG position

over-turn characteristics

overturn angle

tilt

main wheel

ground contact point

lower angle θ

unprepared field

paved runway

airfield surface

rearmost CG

statically stable

dynamically stable

statically unstable

dynamically unstable

caster or rake angle

trail angle

offset

loaded radius

rolling radius

wheel alignment

no retraction

partial retraction (kneeling position)

full retraction