EXERCISES

Rolling bearing types

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1. In which applications are ball bearings frequently used?
a) Low speed applications
b) High speed applications
c) Applications with low load
d) Applications with high load

2. All ball bearings can support loads in an axial and radial direction.
a) Correct
b) Incorrect

3. Which properties apply to roller bearings?
a) The rolling elements have line contact
b) They have a comparatively high frictional torque
c) They have a comparatively low rigidity
d) Roller bearings have a low load capacity

4. Roller bearings only support radial loads.
a) Correct
b) Incorrect

5. Which bearings are often used in pairs?
a) Axial deep groove ball bearing
b) Angular contact ball bearing
c) Spherical roller bearing
d) Tapered roller bearing

6. Which bearings are capable of supporting combined radial and axial loads?
a) Tapered roller bearing
b) Axial deep groove ball bearing
c) Needle roller bearing
d) Spherical roller bearing

7. Cylindrical roller bearings can reach the highest limiting speeds of all roller bearings.
a) Correct
b) Incorrect

8. For which types of bearings should misalignment be avoided?
a) For all bearing types
b) For deep groove ball bearings
c) For needle roller bearings
d) For cylindrical roller bearings

Solution: 1. b, c; 2. b; 3. a, b; 4. b; 5. b, d; 6. a, d; 7. a; 8. c, d