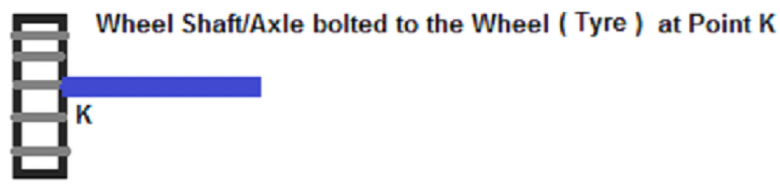


STEX ADVANCED DESIGN BUREAU - ADVANCED ENGINEERING PART - II

VECTORED ROTATION] VRVR TECHNIQUES - USED IN WHEEL DESIGN [FOR TRAINS - TRUCKS - AUTOMOTIVES]

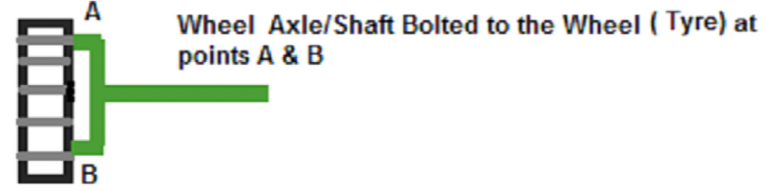
[VRVR] Wheel Connects in Automotive or Other Transportation Systems [Analysis of Force TRANSMISSION to the Wheel]

Existing Systems - Proven Tech



Transmission of Power from the Wheel Axle to the Wheel Technique A

Experimental Design

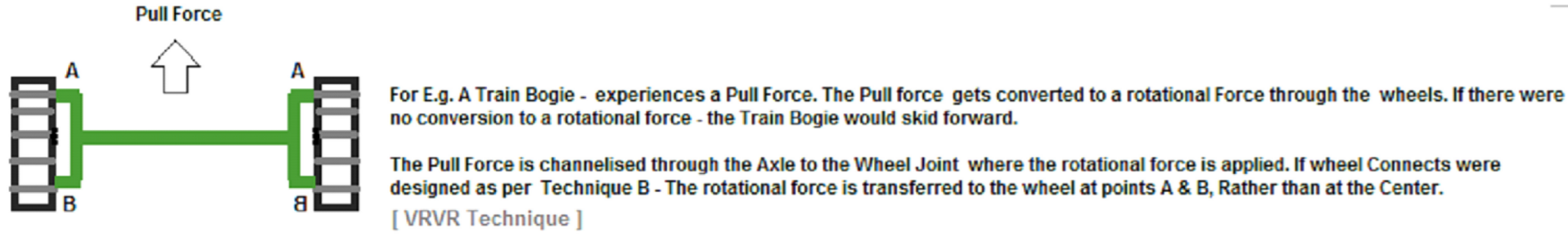


Transmission of Power from the Wheel Axle to the Wheel Technique B [VRVR Technique]

Application areas - Train wheels, Trucks, Earth Movers, Buses, Cars and other Automotives, Bikes.

A possible Expected Result: Faster Transport, Larger Load Bearing Capacity.

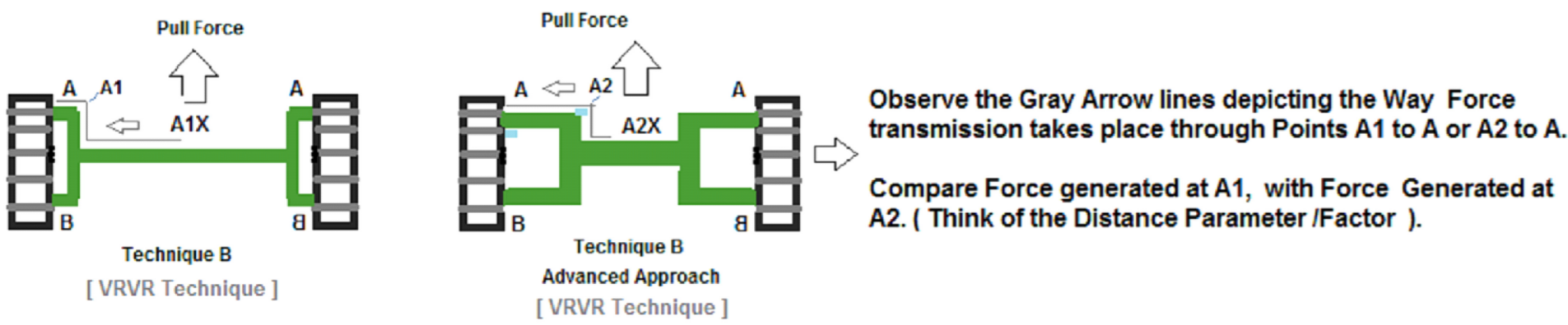
E.g. Train Bogie and Train Engines - Transmission of forces [VRVR Technique]



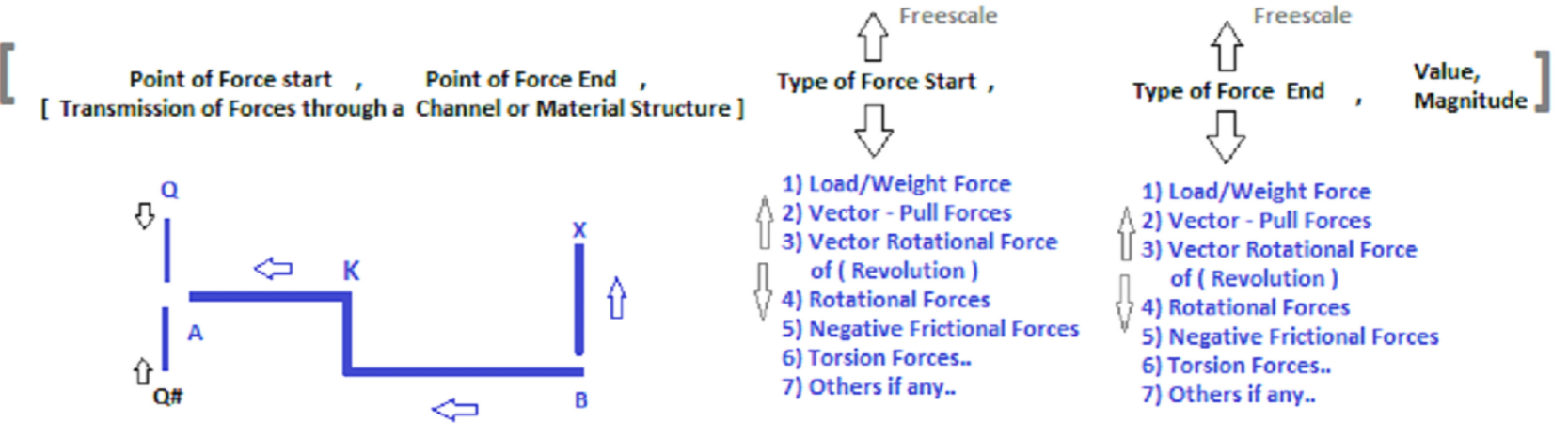
A Test to test this Technique B.

A Threshold Force is USED to pull a Bogie with Regular wheels. It is measured as X. A threshold Force Q is used to pull a similar Bogie with the technique B Wheel Connects. The Difference between Q and X would explain the Efficiency Gained by Technique B.

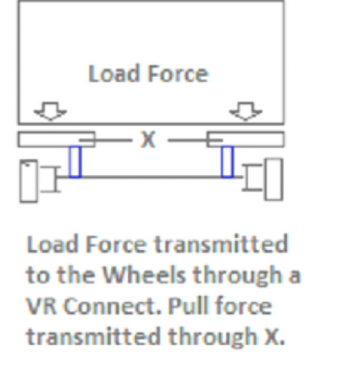
Advanced Approaches - Technique B advanced Approaches [VRVR Technique]



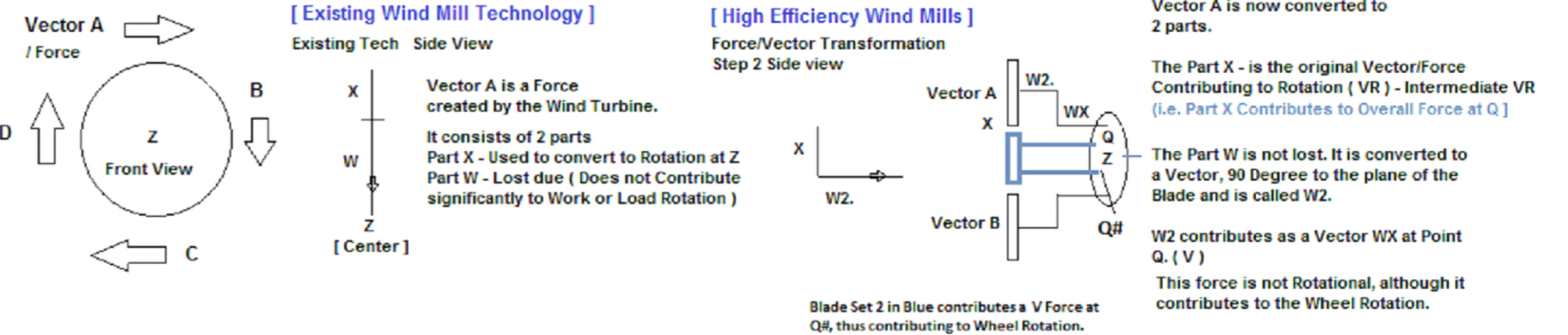
The Technique of Force Balancing can be Enumerated or depicted through the following Function Set



Truck Chassis or Train Chassis Design depicting transmission of Forces

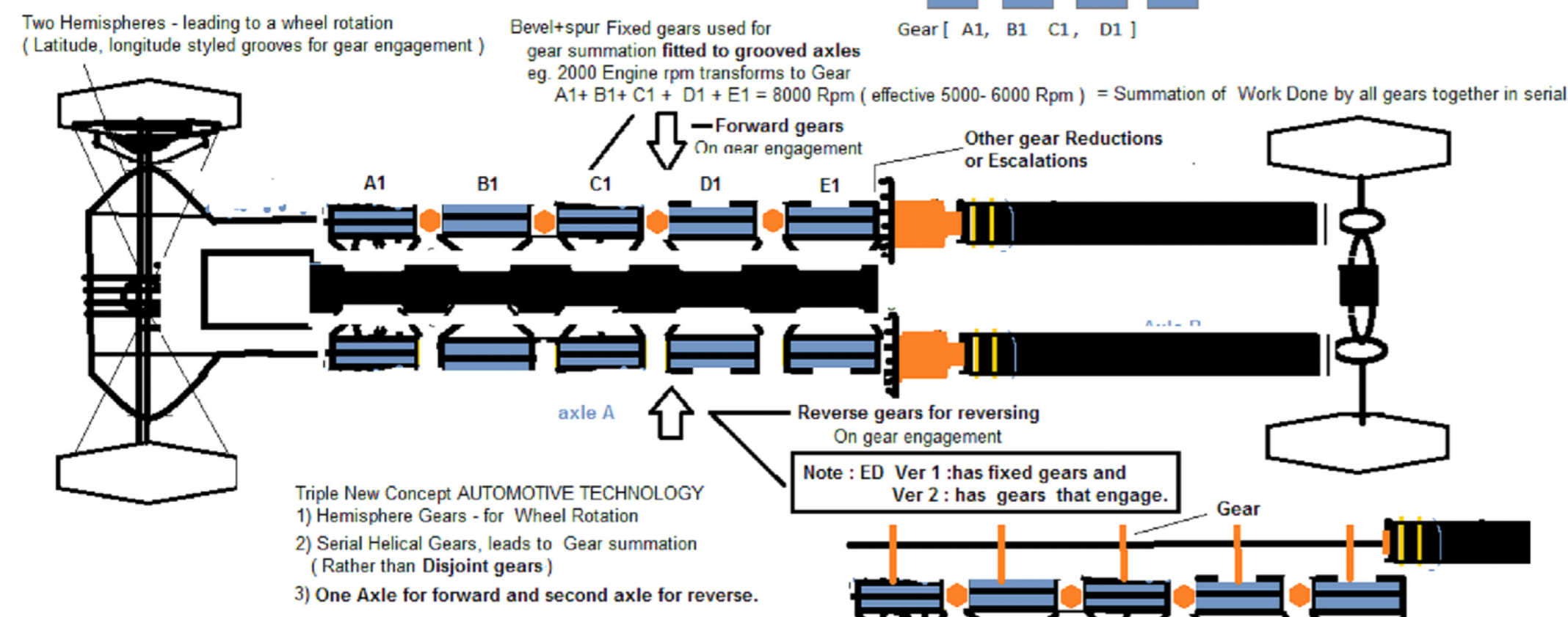


Analysis of VECTOR Force Transformations in a Wind Mill/Wind Turbine System



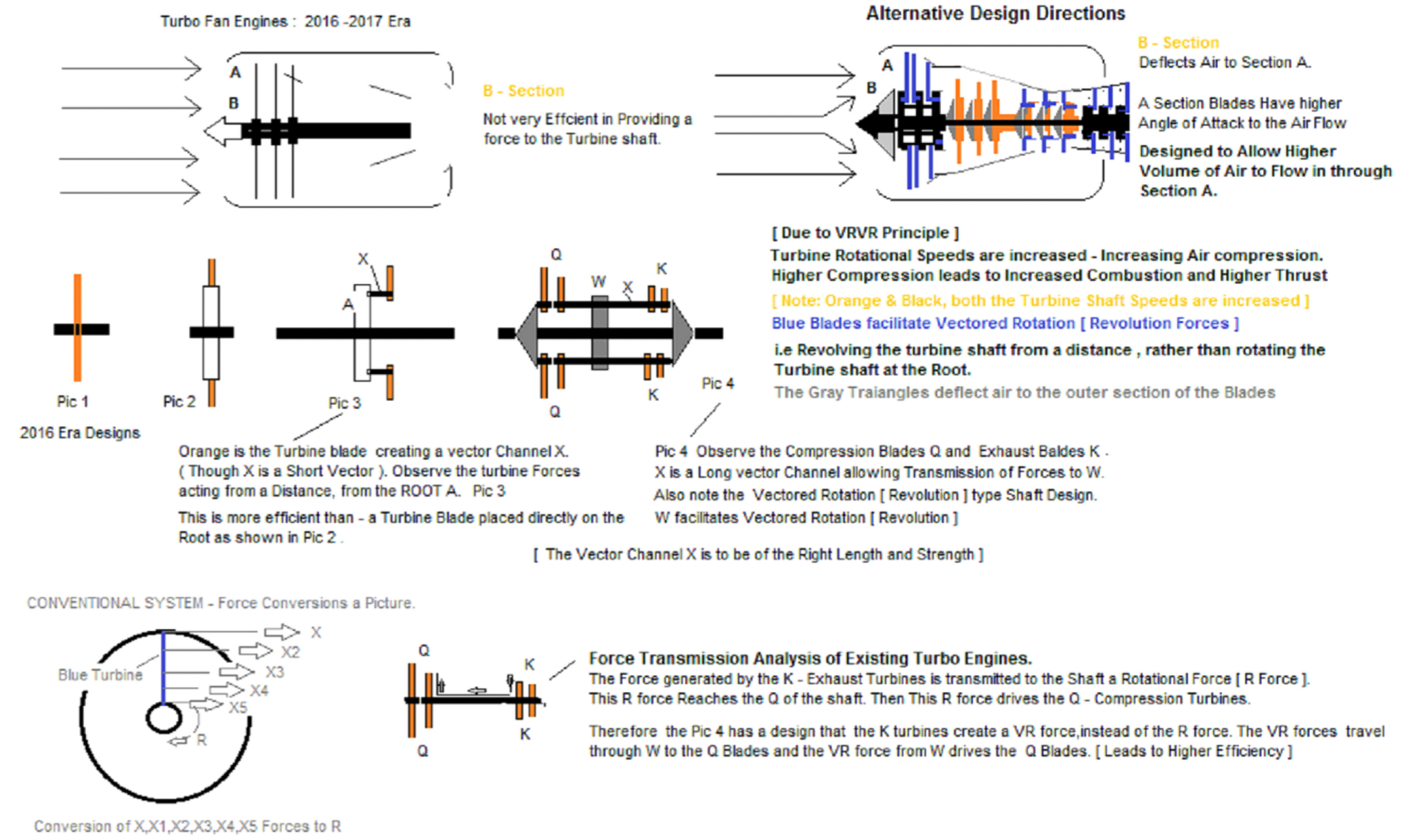
GEAR LOAD BALANCING FOR - HIGH EFFICIENCY POWER DELIVERY

Engineering design version 2



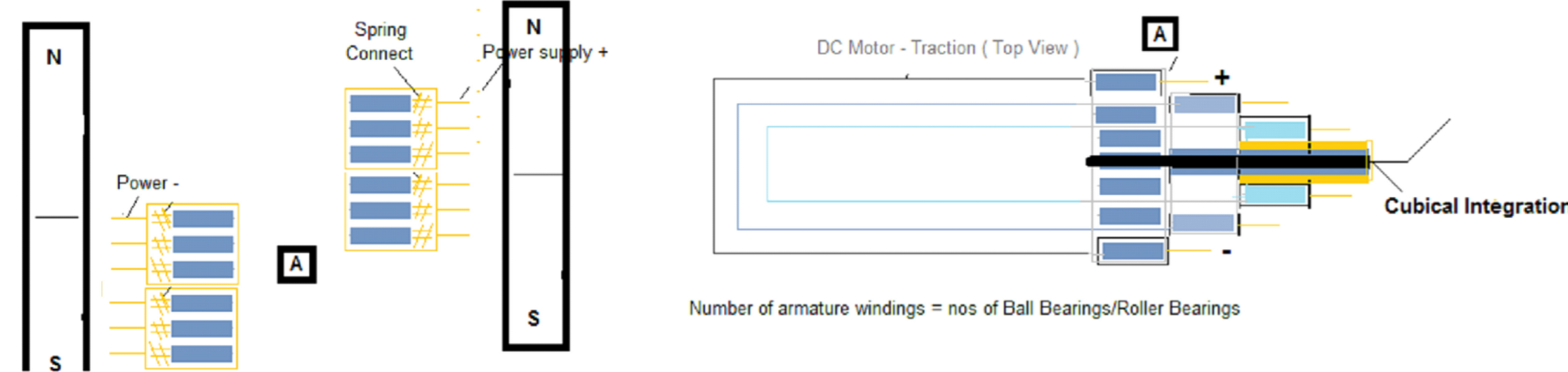
VR VR - TURBINE INNOVATIONS FOR AIRCRAFT JET ENGINES

A brief Outline - JET Turbo Fan Engine Propulsion - Evolutionary Advancements



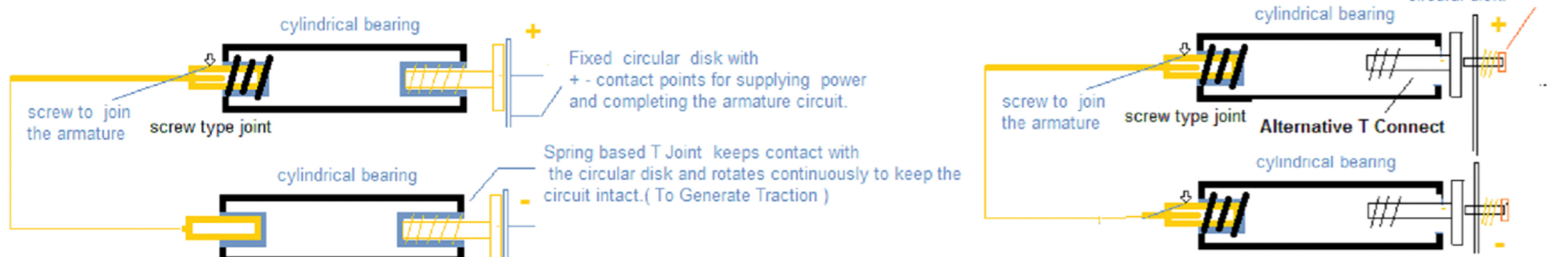
DC MOTORS FOR TRACTION

DC Motor for Traction



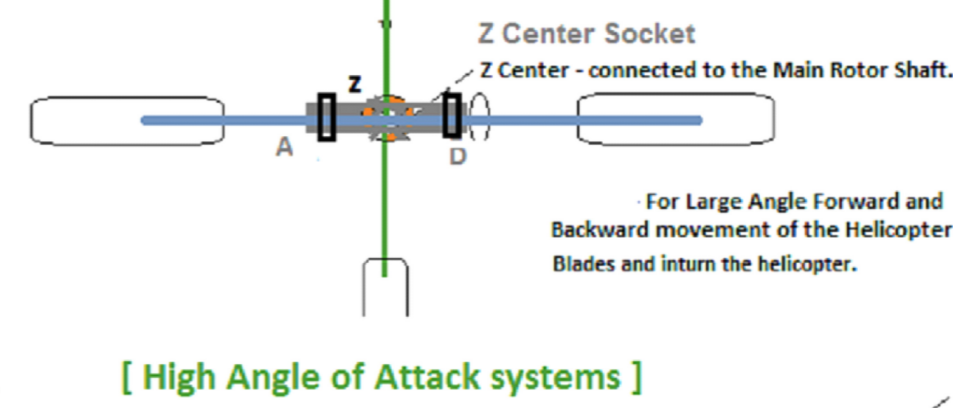
Nos of Spring contact points = Nos of Bearings . Type of contact points is either [+ to - ve] or [- ve to + ve] to and is to be aligned with North south magnets for continuous traction. circular square magnets are aligned in away to allow armature to gain traction for the N/2 spring contact Points with current flowing from + to - ve. Another N/2 Contact Points have current flowing from -ve to +ve. This Helps in creating + to - ve traction in Top Hemisphere and - ve to +ve traction in the bottom hemisphere.

Bearing Design for DC Motor

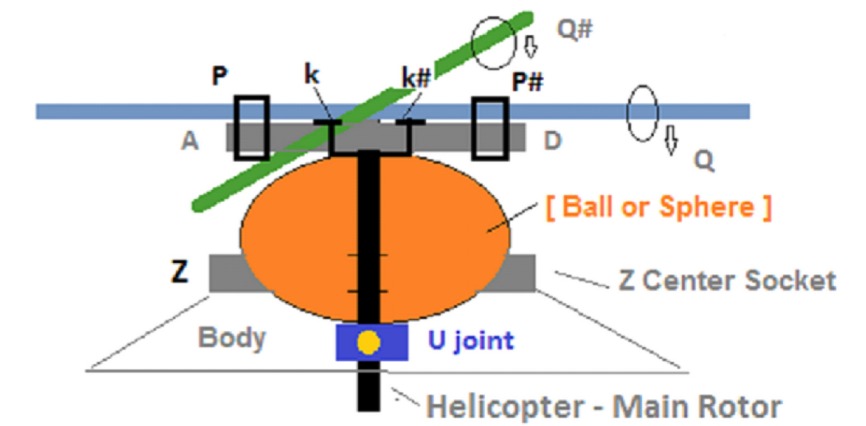


VRVR TECHNIQUE - APPLICATIONS IN HELICOPTER SYSTEMS

Chassis Design [Top View]



Z Center Design - central Joint [Side View]



Large Orange Ball placed on a smaller Diameter Socket. Main rotor shaft - Held by a Screw/Nut joint on TOP.

When Blue Tube Rotates i.e Q, the Ball joint moves Forward/Backward. When the Green Tube Rotates, i.e Q#, the orange ball joint moves left/Right.

U Joint to Allow - Spherical Rotation

AD chassis is always at a 50 - 90 Degree angle to the Main Rotor Shaft.