Mechanics in Railway Transport

Topics

- 1. Ideal train and ideal track.
- 2. Derivation of basic equations of train movement and their modification.
- 3. Track line resistance to vehicle movements.
- 4. Vehicle resistances analysis and calculation.
- 5. Tractive forces expression. Adhesion, coefficient of adhesion.
- 6. Traction characteristics.
- 7. Rolling stock brakes. Air brake pressure diagram.
- 8. Shunting movement.
- 9. Inertial inclination. Diagram so / V.
- 10. Determination of basic locomotive parameters for the designated train.
- 11. Technical normative of transport weight. Koreff's nommogram.
- 12. Tachogram. Static method. Numerical method. Graphical method.
- 13. Energy consumption when the train is running.
- 14. Shunting movement calculations.
- 15. Shunting on marshalling yards.