

Updated
14 March, 2008



COURSE NUMBER

MWB/LB-2

Interior Ballistics

Outline of topics covered:

- Gun And Launcher Propulsion Systems
- Approaches And Methods For Obtaining Low, High And Hyper-Velocity
- Methods To Obtain Consistent Round To Round Performance
- Standard Propellant Guns: Large Caliber & Small Caliber; Separated Loaded Ammunition;
- Combustible Cartridge Case; Ignition System, Propellant Interaction
- Liquid Propellant Gun Systems: Current Design Types; Operation; Liquid Propellant Types;
- Ignition Sequences & Techniques
- Electrical Chemical & Electrical Thermal Approaches
- Electromagnetic Launchers (EM): Induction; Capacitor; Thermal
- Light Gas Guns: Electromagnetic & Light Gas Gun Combinations
- Ignition Techniques: 105mm & 155mm Ignition Trains; Other Large Caliber Systems
- Breechblow Phenomenology: Pressure Wave Phenomena; Ignition Techniques; Burn, Web,
- Stick, Single, Double & Triple Base Propellant Characteristic
- Mortars: Propellant Ignition & Combustion In 81 Mm Mortars; Flame Spread Problems>
- Ignition Systems: 25mm Telescoped Ammunition; Consolidated Ammunition;
- Heat Checking: Wear And Erosion: Methods And Techniques To Reduce Wear & Erosion
- Traveling Charge: Rocket Assisted Projectiles: Tubular & Ram Jet Projectiles
- Ring Air Foil Grenade (RAG) Concepts: High-Low & Folded Ammo
- Computer Programs To Predict Performance: Propellant Guns, Small & Large Caliber; Light
- Gas Launchers
- Relation Between Interior & Exterior Ballistic Performance: Computer Programs And Drag
- Coefficient Calculations
- Caseless: Slurry System Concepts: Telescoped Ammunition Concepts

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