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## PROGRAM OF BASIC COURSE

### □ THE FUNDAMENTALS

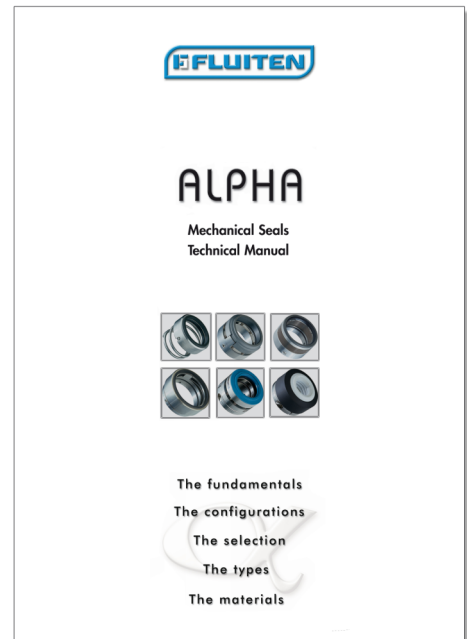
- ✓ The mechanical seal
- ✓ The liquid film
- ✓ Leakage
- ✓ Degree of freedom
- ✓ Balancing ratio
- ✓ Unbalanced seals
- ✓ Balanced seals

### □ THE CONFIGURATIONS

- ✓ Single internal seal
- ✓ Single external seal
- ✓ Back-to-back double seal
- ✓ Tandem double seal
- ✓ Dual seal
- ✓ Face-to-face seal

### □ THE SELECTION

- ✓ Cooling system and API planes
- ✓ Selection of mechanical seals
- ✓ Clean, not harmful, neutral, not flammable products
- ✓ Fluids crystallizing when in contact with atmosphere
- ✓ Acid products
- ✓ Hot liquids
- ✓ Aqueous solutions prone to solidify or produce sediments
- ✓ Toxic, poisonous or highly viscous fluids
- ✓ Abrasive fluids
- ✓ Flammable fluids
- ✓ Hot water





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## □ THE TYPES

- ✓ Single seal with single spring
- ✓ Bi-directional seals
- ✓ Seals with protected springs
- ✓ Elastomeric bellow seals
- ✓ PTFE bellow seal
- ✓ Metal bellow seals
- ✓ External seals
- ✓ Cartridge seals
- ✓ Stationary seals

## □ THE MATERIALS

- ✓ Seal face materials
  - Graphite
  - PTFE
  - Chromium steel
  - Tungsten carbide
  - Silicon carbide
- ✓ Secondary seal materials
  - Nitrilic Rubber
  - Fluoroelastomer
  - Ethylene Propylene
  - Perfluoroelastomers
  - Silicone
  - Neoprene
  - Aflas
- ✓ Non elastomeric materials
  - PTFE (Polytetrafluoroethylene)
  - FEP (Fluoruro of ethylene e propylene)
  - Grafoil and asbestos free
- ✓ Metallic parts