## Hyperbolic Balance Laws

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## Content:

- 1. Balance laws with physical examples
- 2. Hyperbolic balance laws with relaxation, entropy law and Symmetric systems
- 3. Weak solutions and shock waves.
- 4. Admissibility criteria.
- 5. Riemann problem and Riemann problem with structure
- 6. Kinetic theory and hyperbolic systems of moments type