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### 1 General Considerations

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### 2 Thermodynamic Relations

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### 3 Conservation Laws for Continuum Flows

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### 4 Simplification Strategies

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### 5 Conservation Laws for Stream Tubes

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### 6 Steady one-dimensional Flow without Friction and Heat

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### 7 Unsteady one-dimensional Flows

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### 8 Two-dimensional steady supersonic Flow

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### 9 Method Characteristics for planar homentropic supersonic Flows

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### 10 Homentropic Flow around slender Wings

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### 11 Homentropic Flow around axisymmetric slender Bodies

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### 12 Similarity Relations