2. General considerations.

The main idea behind introducing combustion in IDE comes from examining a general form of a subgrid scale equation of state used in combustion:

$$\frac{dpu_i^f}{dt} = -\ \partial p$$

the right hand side of (5) is not available, so it would be assumed zero for this step.

can then be obtained from the equation:

$$u^{f,N+}$$