











dimensions of the spatial discretization steps allow the optimal simulation of the abovementioned vortex structures that govern the transport, the production and the dissipation of the turbulent kinetic energy. See also [13] and [14].

## 5 Conclusion

The relation between Noll's formulation of the principle of material frame indifference and the principle of turbulent frame indifference, has been revised. The definition of a new Rule of Turbulent Closure Relations has been proposed. The aforementioned rule of Turbulent Closure Relations has been expressed in the following form: "In a turbulent closure relation, the modelled expressions of an unknown objective tensor must be formulated in terms of objective tensors, allowing the closure relations to fulfil the requirement of Euclidean form invariance, and must retain the same dependence on the angular velocity of the frame of the unknown tensor". The generalized SGS turbulent stress tensor is related exclusively to the generalized SGS turbulent kinetic energy, which has been calculated by means of its balance equation, and the modified Leonard tensor.

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