**(1)The grid characteristic method** can broadly be defined as a family of numerical methods which are used to solve hyperbolic systems of equations, for instance, dynamic wave propagation in heterogeneous media. This method allows (2) to physically correctly simulate of wave processes and take into account boundary conditions with high precision.

The grid characteristic method is based on characteristic properties of hyperbolic equations. The use of these properties allows to build a numerical scheme of solving equation in the most natural way. These advantages manifest (3) ~~especually~~ (especially) well in the one-dimensional equation in combination with fixed difference grid. In the multidimensional case variables are able to preserve (4) their positive qualities. Also, there are ways to effectively generalize methods developed for linear equations, in the nonlinear case. So, the grid characteristic method (5) can solve a wide range of physical problems describing hyperbolic systems of equation, from modeling the seismic waves to composite materials.

The primary advantage of the grid characteristic (6) ~~methodis~~ (methods) ability to accurately capture wave propagation and discontinuities with minimal numerical diffusion. This is particularly important in applications where the fidelity of wave fronts and shock waves is crucial for accurate predictions.

It can be ~~seem~~ (seemed) that the grid characteristic method and conventional approaches of numerical modeling are similar. But there are some differences. Conventional approach ~~ischosen~~ (is chosen) to solve the system of equations. And grid characteristic methods are used to describe particular physical effects which are interesting in the investigation.

Also, the grid characteristic method can be combined with other numerical techniques, such as the finite volume method or the finite element method, to enhance its applicability and robustness. This ~~hybridisation~~ (hybridization)allows the strong qualities of each method to be combined, providing a powerful tool for solving a wide range of physical problems.

References:

[1] Petrov, I. B. (2019). Application of the grid-characteristic method for mathematical modeling in dynamical problems of deformable solid mechanics. In Computer Research and Modeling (Vol. 11, Issue 6, pp. 1041–1048). Izhevsk Institute of Computer Science. https://doi.org/10.20537/2076-7633-2019-11-6-1041-1048

[2]Favorskaya, A. V., & Petrov, I. B. (2018). Grid-Characteristic Method. In Innovations in Wave Processes Modelling and Decision Making (pp. 117–160). Springer International Publishing. https://doi.org/10.1007/978-3-319-76201-2\_5

1. Add a brief definition of GCM at the beginning for clarity.
2. Replace "allow" with "enable" for more precise language.
3. Replace "these advantages manifest especially well" with "This approach is particularly effective" for better flow.
4. Replace "are able to preserve" with "maintain" for conciseness.
5. Replace "So the grid characteristic method can solve" with "Consequently, GCM can be applied to"
6. Replace "And grid characteristic methods are used" with "whereas GCM is employed" for better contrast and clarity.