

cases	doc_1		doc_2		decision	id
	authors	<ul style="list-style-type: none">Xu, K.	authors	<ul style="list-style-type: none">Kun Xu Icase	DUPLICATES	1149
	title	Gas-Kinetic Theory-Based Flux Splitting Method for Ideal Magnetohydrodynamics	title	Gas-Kinetic Theory-Based Flux Splitting Method for Ideal Magnetohydrodynamics		
	publication_date	1999-01-01 00:00:00	publication_date	None		
	source	SupportedSources.CROSSREF	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal		journal			
	volume		volume			
	doi	10.1006/jcph.1999.6280	doi			
	urls	<ul style="list-style-type: none">https://api.elsevier.com/content/article/PII:S0021999199962800?httpAccept=text/xmlhttps://api.elsevier.com/content/article/PII:S0021999199962800?httpAccept=text/plainhttp://dx.doi.org/10.1006/jcph.1999.6280	urls	<ul style="list-style-type: none">https://www.semanticscholar.org/paper/80915df07e2931ee9af2b2dfa345c7b0789f7c16		
	id	id1389687413346116977	id	id-2977725482136893785		
	abstract		abstract	A gas-kinetic flux splitting method is developed for the ideal magnetohydrodynamics (MHD) equations. The new scheme is based on the direct splitting of the flux function of the MHD equations with the inclusion of “particle” collisions in the transport process. Consequently, the artificial dissipation in the new scheme is greatly reduced in comparison with the MHD flux vector splitting method. Numerical results from the current scheme are favorable compared with those from the well-developed Roe-type MHD solver. In the current paper, the general principle of splitting the macroscopic flux function based on the gas-kinetic theory is presented. The flux construction strategy may shed some light on the possible construction of accurate and robust hybrid schemes for the compressible flow simulations. c © 1999 Academic Press		
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