



## Faster Heavy Ion Transport for Hzetrn

By Tony C. Slaba

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. The deterministic particle transport code HZETRN was developed to enable fast and accurate space radiation transport through materials. As more complex transport solutions are implemented for neutrons, light ions ( $Z \leq 2$ ), mesons, and leptons, it is important to maintain overall computational efficiency. In this work, the heavy ion ( $Z \geq 2$ ) transport algorithm in HZETRN is reviewed, and a simple modification is shown to provide an approximate 5x decrease in execution time for galactic cosmic ray transport. Convergence tests and other comparisons are carried out to verify that numerical accuracy is maintained in the new algorithm. This item ships from La Vergne, TN. Paperback.



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