

PROBLEM SOLUTION MANUAL FOR

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# Fundamentals of Nuclear Science and Engineering

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Third Edition

by

**J. Kenneth Shultis**

and

**Richard E. Faw**

Dept. of Mechanical and Nuclear Engineering  
Kansas State University  
Manhattan, KS 66506

email: [jks@ksu.edu](mailto:jks@ksu.edu)

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# Shultis And Faw Solution Manual

**American Nuclear Society**



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solved The complexity and hence expense involved in solving the transport problem can be understood by realizing that the general solution to the 3D Boltzmann transport equation is in fact really seven dimensional 3 spatial coordinates 2 angles 1 time and 1 for speed or energy Low order approximations to the transport equation are frequently used due in part to physical justification but many in cases simply because a solution to the full transport problem is too computationally expensive An example is the diffusion equation which effectively drops the two angles in phase space by assuming that a linear representation in angle is adequate Another approximation is the grey approximation which drops the energy variable by averaging over it If the grey approximation is applied to the diffusion equation the expense of solving what amounts to the simplest possible description of transport is roughly equal to the cost of implicit computational fluid dynamics It is clear therefore that for those application areas needing some form of transport fast accurate and robust transport algorithms can lead to an increase in overall code performance and a decrease in time to solution

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