

# Computer Models For Fire and Smoke

<i>Model Name:</i>	ASMET
<i>Version:</i>	1.00
<i>Classification:</i>	Package of Engineering Tools
<i>Very Short Description:</i>	ASMET consists of a set of equations and a zone fire model for analysis of smoke management systems for atria and other large spaces.
<i>Modeler(s), Organization(s):</i>	John H. Klote, NIST
<i>User's Guide:</i>	Klote, J.H. 1994. Method of Predicting Smoke Movement in Atria With Application to Smoke Management, National Institute of Standards and Technology, NISTIR 5516.
<i>Technical References:</i>	Klote, J.H. 1994. Method of Predicting Smoke Movement in Atria With Application to Smoke Management, National Institute of Standards and Technology, NISTIR 5516.
<i>Validation References:</i>	None
<i>Availability:</i>	NIST
<i>Price:</i>	None
<i>Necessary Hardware:</i>	PC 386
<i>Computer Language:</i>	C++
<i>Size:</i>	142 KB
<i>Contact Information:</i>	John H. Klote, JHK, Inc., McLean, VA, phone 703-356-1691

*Detailed Description:*

ASMET (Atria Smoke Management Engineering Tools) consists of a set of equations and a zone fire model for analysis of smoke management systems for large spaces such as atria, shopping malls, arcades, sports arenas, exhibition halls and airplane hangers. Tools include plume mass flow with and without virtual origin correction, plume centerline temperature, and a C++ version of the ASET-B program called ASET-C.