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Edition, Swift Gregory  
W. , Springer, 2017,  
326 pp. Price: \$89.99  
(hardcover), ISBN:  
978-3-319-66932-8.

Sometime in the early  
education of most of us  
who study acoustics,  
someone showed us  
how to combine the  
continuity equation  
with the momentum or  
force equation, a



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mention was made about an equation-of-state that assumed sound is adiabatic, and out came the wave equation.

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"Thermoacoustics: A unifying perspective for some engines and refrigerators," G. W. Swift, graduate-level textbook, available at ASA Books. View table of contents . "The power of sound," S. L. Garrett and S. Backhaus, American Scientist 88 , 516-525, (2000).

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**Publications**

Thermoacoustics is the interaction between temperature, density and pressure variations of acoustic waves.

Thermoacoustic heat engines can readily be driven using solar energy or waste heat and they can be controlled using proportional control.

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This is the central



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source for technical information on thermoacoustics research at Los Alamos National Laboratory. In the column on the right, you will find educational and computational resources as well as links to news, publications, and information on research and development of thermoacoustic engines, refrigerators,

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separators.

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of thermoacoustic

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Swift, G. W. 2002  
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Acoustical Society of  
America . Thompson ,  
M. W. , Atchley , A. A. &  
Maccarone , M. J. 2005

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Influences of a  
temperature gradient  
and fluid inertia on  
acoustic streaming in a  
standing wave .

**Nonlinear theory for  
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waves in a narrow ...**

Thermodynamic and  
fluid-dynamic  
processes in sound  
waves in gases can  
convert energy from  
one form to another. In  
these thermoacoustic  
processes [ 7.1, 2 ],

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high-temperature heat  
or chemical energy can  
be partially converted  
to acoustic power,  
acoustic power can  
produce heat, acoustic  
power can pump heat  
from a low  
temperature or to a  
high temperature, and  
acoustic power can be  
partially converted to  
chemical potential in  
the separation of gas  
mixtures.

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