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Here are the functions:

```
function V=Vol(h, r1, h1,  
r2, h2) V = VCyl(r1, h1) +  
VFus(r1, r2, h2); if h <= 0  
V = 0; elseif h < h1 V =  
VCyl(r1, h); elseif h < h1 +  
h2 r2h = r1 + (r2 - r1) / h2  
* (h - h1); V = VCyl(r1, h1)  
+ VFus(r1, r2h, h - h1); end  
end function V=VCyl(r, y) V  
= pi * r ^ 2 * y; end  
function V=VFus(r1, r2, h2)  
V = pi * h2 / 3 * (r1 ^ 2 +  
r2 ^ 2 + r1 * r2); end Here  
is a script that uses the  
functions to develop a plot  
of volume versus height:  
clc,clf h=[-1:0.5:16]; r1=4;  
H1=10 ...
```

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for Engineers, 5/e (2006),
also by McGraw-Hill.

This book provides a pragmatic, methodical and easy-to-follow presentation of numerical methods and their effective implementation using MATLAB, which is introduced at the outset. The author introduces techniques for solving equations of a single variable and systems of equations, followed by curve fitting and interpolation of data. The book also provides detailed coverage of numerical differentiation and

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Mathematical underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also

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treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.

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