

```

% PIECEWISE LINEAR RAYLEIGH-RITZ ALGORITHM 11.5
%
% To approximate the solution of the boundary-value problem
%
%      -D(P(X)Y')/DX + Q(X)Y = F(X), 0 <= X <= 1,
%      Y(0) = Y(1) = 0,
%
% with a piecewise linear function:
%
% INPUT:   integer N; mesh points X(0) = 0 < X(1) < ...
%          < X(N) < X(N+1) = 1
%
% OUTPUT:  coefficients C(1),...,C(N) of the basis functions
syms('AA', 'OK', 'N', 'X', 'FLAG', 'HC', 'J', 'H', 'NAME');
syms('INP', 'N1', 'Q', 'ALPHA', 'BETA', 'B', 'A', 'ZETA');
syms('Z', 'C', 'J1', 'OUP', 'x', 'sqg', 'sp', 'sf', 'I');
TRUE = 1;
FALSE = 0;
fprintf(1, 'This is the Piecewise Linear Rayleigh-Ritz Method.\n');
fprintf(1, 'The M-file SIMPSON.M is used by this program.\n');
fprintf(1, 'Input F(X), Q(X), and P(X) in terms of x\n');
fprintf(1, 'on separate lines.\n');
fprintf(1, 'For example:  2*pi^2*sin(pi*x) \n');
fprintf(1, '                    pi^2 \n');
fprintf(1, '                    1 \n');
sf = input(' ', 's');
F = inline(sf, 'x');
sqg = input(' ', 's');
QG = inline(sqg, 'x');
sp = input(' ', 's');
P = inline(sp, 'x');
fprintf(1, 'X(0), ..., X(N+1) are to be supplied.\n');
fprintf(1, 'Are the preparations complete? Answer Y or N.\n');
AA = input(' ', 's');
OK = FALSE;
if AA == 'Y' | AA == 'y'
OK = FALSE;
while OK == FALSE
fprintf(1, 'Input integer N where X(0) = 0, X(N+1) = 1.\n');
N = input(' ');
if N <= 1
fprintf(1, 'N must be greater than one.\n');
else
OK = TRUE;
end;
end;
X = zeros(1, N+2);
H = zeros(1, N+1);
Q = zeros(6, N+1);
A = zeros(1, N+1);
B = zeros(1, N+1);
C = zeros(1, N+1);
ALPHA = zeros(1, N+1);
BETA = zeros(1, N+1);

```



Matlab Code Rayleigh Ritz

Lei Huang



Matlab Code Rayleigh Ritz:

The Enigmatic Realm of **Matlab Code Rayleigh Ritz**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Matlab Code Rayleigh Ritz** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

<https://staging.conocer.cide.edu/public/detail/Documents/find%20the%20word%20as%20it%20sounds%20dictionary.pdf>

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