```
clc
clear
% close all
%constants
k=1.38e-23;
hbar=1.0546e-34;
m0=9.1e-31;
e=1.6e-19;
eps0=8.85e-12;
X = 0.3;
%initial paramets
a=2.8e-9;
                           %size of chanel, nm
b=1.8e-9;
                           %size of barrier, nm
U0=e*X*0.74;
                         %height of barrier, eV
m1=0.067*m0;
                         %eff. mass in GaAs, kg
m2=(0.067+0.083*X)*m0; %eff. mass in AlGaAs(x), kg
%solving Schr eq
m=m1; mb=m2;
gm1=@(E)sqrt(2*m*(E))/hbar;
gm2=@(E)sqrt(2*mb*(-E+U0))/hbar;
gm3=@(E)sgrt(2*m*(E))/hbar;
gm4=@(E)sqrt(2*mb*(-E+U0))/hbar;
gm5=@(E)sqrt(2*m*(E))/hbar;
A1=1;
MKoef=@(E)[1,
                             -1,
                                                           -1,
                                                    0,
              0,
                                               0,
        0,
    0;
            -1i*qm1(E)/m,
                             -gm2(E)/mb,
                                                          gm2(E)/mb,
              0,
                                                    0,
        0,
                                               0,
    0;
                             \exp(gm2(E)*b),
                                                           \exp(-gm2(E)*b),
              -\exp(1i*gm3(E)*b),
                                                    -\exp(-1i*gm3(E)*b),
        0,
                                               0,
    0;
                             gm2(E)/mb.*exp(gm2(E)*b),
                                                          -gm2(E)/mb.*exp(-
                    -1i*gm3(E)/m.*exp(1i*gm3(E)*b),
                                                          1i*gm3(E)/
gm2(E)*b),
m.*exp(-li*gm3(E)*b),
                                                                  0,
                           0,
                             0,
                                                           0,
              exp(1i*qm3(E)*(a+b)),
                                                    \exp(-1i*qm3(E)*(a+b)),
        -\exp(gm4(E)*(a+b)),
                                               -\exp(-gm4(E)*(a+b)),
    0;
            0,
                             0,
                                                          Ο,
                        1i*gm3(E)/m.*exp(1i*gm3(E)*(a+b)), -1i*gm3(E)/
m.*exp(-1i*gm3(E)*(a+b)), -gm4(E)/mb.*exp(gm4(E)*(a+b)),
mb.*exp(-gm4(E)*(a+b)),
                               0;
```

1

```
0,
            0,
                             0,
              0,
                                                    0,
        \exp(gm4(E)*(a+2*b)),
                                               \exp(-gm4(E)*(a+2*b)),
    -\exp(1i*qm5(E)*(a+2*b));
                                                          0,
            0,
                                                    0,
        gm4(E)/mb.*exp(gm4(E)*(a+2*b)),
                                               -gm4(E)/mb.*exp(-gm4(E)*(a+2*b)),
    -1i*qm5(E)/m.*exp(1i*qm5(E)*(a+2*b))];
MSvob=@(E)[-A1; -A1*1i*gm1(E)/m; 0; 0; 0; 0; 0; 0];
% Koef=@(E)bicgstab(MKoef(E),MSvob(E), 1e-11, 100);
% Koef=@(E)gmres(MKoef(E),MSvob(E),10,1e-12,15);
Koef=@(E)(MKoef(E)\MSvob(E));
f=figure ('Units','normalized','OuterPosition', [0.05 0.05 0.5 0.5]);
subplot(1,2,2)
N = 750;
E=linspace(0,1.2*X*e,N);
D=zeros(1,N);
for i=1:N
    T=Koef(E(i));
    D(i) = abs(T(8))^2;
end
plot(D,E/e)
ylabel('E,##')
xlabel('D')
title('######### #######")
subplot(1,2,1)
E0=0.15*e;
S=zeros(1,100); k1=qm1(E0); k2=qm2(E0);
Psi1=@(A,B,x)A*exp(1i*k1*x)+B*exp(-1i*k1*x);
Psi2=@(A,B,x)A*exp(k2*x)+B*exp(-k2*x);
x=linspace(-b,a+3*b,N);
T=Koef(E0);
% T=T./sqrt(T.*conj(T));
for i=1:N
    if(x(i)<0)
        S(i) = Psi1(A1,T(1),x(i));
    elseif (x(i) \ge 0 \&\& x(i) < b)
        S(i) = Psi2(T(2), T(3), x(i));
    elseif (x(i)>=b \&\& x(i)<b+a)
        S(i)=Psi1(T(4),T(5),x(i));
    elseif (x(i) >= b+a \&\& x(i) < 2*b+a)
        S(i) = Psi2(T(6), T(7), x(i));
    elseif (x(i)>=2*b+a)
        S(i) = Psi1(T(8), 0, x(i));
    end
end
plot(x*1e9,E0/e+real(S)/max(real(S))/30)
xnew=[-b, 0, 0, b, a+b, a+b,
                                         a+2*b, a+2*b, a+3*b];
Unew=[0
                UO UO O O
            0
                                 U0
                                         U0
                                                  0
                                                          0]/e;
hold on
plot(xnew*1e9, Unew)
xlim([x(1) x(end)]*1e9)
```

```
yline(E0/e,'--')
xlabel('x,##')
ylabel('U, ##')
grid on
title('########### ##### #####')
exportgraphics(f,['analyt.jpg'])
Warning: Matrix is singular to working precision.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 6.255954e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 7.018741e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 7.435486e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 7.720683e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 7.938386e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.115818e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.266891e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.399587e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.518871e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.628022e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.729305e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.824345e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 8.914341e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
RCOND = 9.000203e-44.
Warning: Matrix is close to singular or badly scaled. Results may be
 inaccurate.
```

RCOND = 9.082634e-44.

RCOND = 9.162186e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.239303e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.314343e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.387601e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.459321e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.529707e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.598932e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.667143e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.734466e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.801011e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.866870e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.932128e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.996856e-44.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.006112e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.012497e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.018846e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.025164e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.031454e-43.

RCOND = 1.037721e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.043967e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.050195e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.056408e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.062608e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.068798e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.074979e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.081154e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.087324e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.093490e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.099654e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.105817e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.111981e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.118146e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.124313e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.130484e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.136660e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.142840e-43.

RCOND = 1.149026e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.155219e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.161418e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.167625e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.173841e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.180065e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.186299e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.192542e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.198794e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.205058e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.211331e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.217616e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.223912e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.230220e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.236539e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.242870e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.249213e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.255568e-43.

RCOND = 1.261936e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.268316e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.274708e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.281113e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.287531e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.293962e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.300405e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.306861e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.313330e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.319811e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.326305e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.332812e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.339331e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.345862e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.352406e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.358962e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.365530e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.372109e-43.

RCOND = 1.378700e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.385303e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.391916e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.398540e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.405174e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.411819e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.418473e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.425136e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.431808e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.438488e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.445176e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.451871e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.458572e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.465279e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.471990e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.478706e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.485424e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.492144e-43.

RCOND = 1.498864e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.505583e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.512300e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.519013e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.525720e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532420e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.539109e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.545787e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.552449e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.559095e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.565720e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.572322e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.578898e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.585444e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.591957e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.598436e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.604875e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.611274e-43.

RCOND = 1.617629e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.623938e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.630201e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.636416e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.642583e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.648701e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.654771e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.660794e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.666770e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.672701e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.678588e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.684432e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.690235e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.695998e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.701722e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.707409e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.713060e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.718676e-43.

RCOND = 1.724257e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.729806e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.735322e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.740807e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.746261e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.751684e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.757078e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.762443e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.767779e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.773087e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.778368e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.783621e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.788847e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.794046e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.799220e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.804367e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.809490e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.814587e-43.

RCOND = 1.819661e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.824710e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.829736e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.834739e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.839720e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.844680e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.849618e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.854536e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.859435e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.864315e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.869178e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.874024e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.878854e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.883670e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.888473e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.893264e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.898044e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.902816e-43.

RCOND = 1.907580e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.912339e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.917094e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.921848e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.926601e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.931358e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.936119e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.940888e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.945667e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.950460e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.955268e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.960096e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.964947e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.969824e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.974731e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.979672e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.984652e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.989675e-43.

RCOND = 1.994745e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.999867e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.005048e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.010292e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.015604e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.020992e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.026461e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.032018e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.037670e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.043424e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.049288e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.055270e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.061379e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.067623e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.074011e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.080552e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.087258e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.094137e-43.

RCOND = 2.101202e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.108463e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.115931e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.123620e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.131541e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.139709e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.148135e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.156836e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.165824e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.175116e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.184728e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.194674e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.204972e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.215640e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.226695e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.238155e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.250040e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.262369e-43.

RCOND = 2.275161e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.288438e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.302220e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.316529e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.331387e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.346817e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.362842e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.379486e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.396772e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.414726e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.433372e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.452737e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.472845e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.493723e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.515399e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.537899e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.561251e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.585483e-43.

RCOND = 2.610623e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.636700e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.663743e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.691780e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.720841e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.750957e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.782156e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.814470e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.847928e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.882561e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.918400e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.955476e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.993820e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.033463e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.074437e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.116774e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.160506e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.205664e-43.

RCOND = 3.252281e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.334508e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.370730e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.408315e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.447285e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.487658e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.529457e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.572701e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.617411e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.663610e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.711319e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.760560e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.811355e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.863727e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.917699e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.973294e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.030537e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.089452e-43.

RCOND = 4.150064e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.212398e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.276481e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.342340e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.410002e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.479495e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.550848e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.624090e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.699252e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.776365e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.855461e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.936574e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.019736e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.104983e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.192350e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.281875e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.373595e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.467549e-43.

RCOND = 5.563778e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.662323e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.763226e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.866532e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.972285e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.080532e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.191321e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.304701e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.420723e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.539440e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.660905e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.785174e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.912304e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.042354e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.175385e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.311459e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.450641e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.592998e-43.

RCOND = 7.738598e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.887511e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.039811e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.195571e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.354871e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.517788e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.684405e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.854807e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.029081e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.207316e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.389606e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.576046e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.766735e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.961774e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.016127e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.036533e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.057406e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.078758e-42.

RCOND = 1.100601e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.122947e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.145809e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.169199e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.193132e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.217621e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.242681e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.268326e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.294572e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.321434e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.348929e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.377074e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.405886e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.435383e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.465584e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.496509e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.528176e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.560608e-42.

RCOND = 1.593825e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.627849e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.662704e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.698413e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.735000e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.772491e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.810913e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.850292e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.890657e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.932038e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.974464e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.017968e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.062582e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.108340e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.155278e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.203432e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.252840e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.303542e-42.

RCOND = 2.355580e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.408995e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.463833e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.520139e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.577963e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.637354e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.698365e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.761050e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.825466e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.891672e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.959730e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.029705e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.101664e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.175677e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.251819e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.330165e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.410796e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.493797e-42.

RCOND = 3.579256e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.667264e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.757919e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.851322e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.947580e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.046804e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.149111e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.254626e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.363477e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.475801e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.591743e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.711452e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.835091e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.962826e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.094836e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.231309e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.372445e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.518453e-42.

RCOND = 5.669558e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.825996e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.988019e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.155893e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.329904e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.510353e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.528847e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.536807e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.543618e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.549214e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.553521e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.556462e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.557955e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.557910e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.556231e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.552813e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.547545e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.540306e-42.

RCOND = 6.530964e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.519376e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.505386e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.488825e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.469505e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.447224e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.421755e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.392853e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.360240e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.323613e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.282630e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.236909e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.186021e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.129478e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.066727e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.997132e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.919962e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.834365e-42.

RCOND = 5.739343e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.633712e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.516053e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.384641e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.237345e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.071483e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.883601e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.669116e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.421731e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.132362e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.787026e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.362024e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.810457e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.006071e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.678223e-43.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 2.267200e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.043178e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 3.621357e-42.

RCOND = 4.094416e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.499798e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 4.857054e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.177903e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.470021e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.738751e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 5.987990e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.220678e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.439100e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.645069e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.840055e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.025264e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.201705e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.370229e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.531560e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.686322e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.835058e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 7.978241e-42.

RCOND = 8.116288e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.249566e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.378405e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.503098e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.623908e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.741074e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.854810e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 8.965312e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.072759e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.177314e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.279127e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.378335e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.475065e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.569436e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.661555e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.751523e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.839435e-42.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 9.925378e-42.

RCOND = 1.000943e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.009168e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.017218e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.025101e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.032824e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.040391e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.047809e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.055083e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.062218e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.069218e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.076088e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.082833e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.089456e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.095960e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.102351e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.108631e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.114803e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.120871e-41.

RCOND = 1.126837e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.132704e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.138476e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.144155e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.149742e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.155241e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.160654e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.165983e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.171230e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.176398e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.181487e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.186500e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.191439e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.196306e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.201101e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.205828e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.210486e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.215078e-41.

RCOND = 1.219606e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.224070e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.228472e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.232813e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.237094e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.241317e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.245483e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.249592e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.253647e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.257648e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.261595e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.265491e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.269336e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.273131e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.276876e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.280573e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.284223e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.287827e-41.

RCOND = 1.291384e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.294896e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.298365e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.301789e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.305171e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.308511e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.311809e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.315066e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.318284e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.321462e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.324601e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.327701e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.330764e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.333790e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.336779e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.339732e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.342649e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.345532e-41.

RCOND = 1.348379e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.351193e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.353973e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.356720e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.359435e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.362117e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.364767e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.367386e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.369974e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.372531e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.375058e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.377556e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.380023e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.382462e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.384872e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.387254e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.389608e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.391934e-41.

RCOND = 1.394233e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.396505e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.398750e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.400969e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.403161e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.405328e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.407470e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.409586e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.411677e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.413744e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.415786e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.417804e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.419798e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.421769e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.423716e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.425641e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.427542e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.429420e-41.

RCOND = 1.431277e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.433111e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.434923e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.436713e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.438482e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.440230e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.441956e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.443661e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.445346e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.447010e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.448654e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.450278e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.451882e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.453466e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.455030e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.456575e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.458101e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.459608e-41.

RCOND = 1.461096e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.462565e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.464015e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.465447e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.466861e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.468256e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.469634e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.470993e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.472335e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.473660e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.474967e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.476257e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.477529e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.478785e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.480024e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.481246e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.482451e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.483640e-41.

RCOND = 1.484812e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.485969e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.487109e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.488233e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.489341e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.490433e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.491510e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.492571e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.493616e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.494646e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.495661e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.496661e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.497646e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.498615e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.499570e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.500510e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.501436e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.502346e-41.

RCOND = 1.503242e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.504124e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.504992e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.505845e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.506684e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.507509e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.508319e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.509116e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.509899e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.510669e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.511424e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.512166e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.512894e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.513609e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.514310e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.514998e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.515673e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.516335e-41.

RCOND = 1.516983e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.517618e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.518240e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.518849e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.519445e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.520029e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.520599e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.521157e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.521702e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.522234e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.522754e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.523261e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.523755e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.524238e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.524707e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.525164e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.525609e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.526042e-41.

RCOND = 1.526462e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.526870e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.527266e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.527650e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.528022e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.528381e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.528729e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.529064e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.529387e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.529699e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.529998e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.530286e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.530562e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.530825e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.531077e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.531317e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.531546e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.531762e-41.

RCOND = 1.531967e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532160e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532341e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532511e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532668e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532814e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532949e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533071e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533182e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533281e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533369e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533444e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533509e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533561e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533602e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533631e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533648e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533654e-41.

RCOND = 1.533647e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533629e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533600e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533558e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533505e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533440e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533363e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533275e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533174e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.533062e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532938e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532801e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

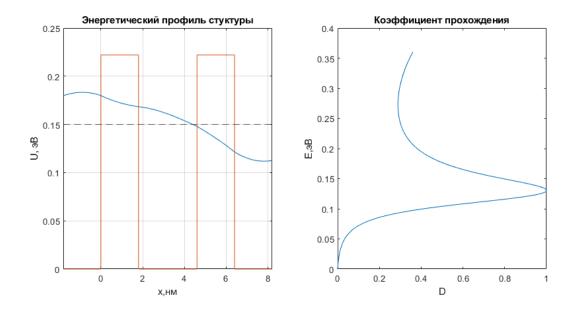
RCOND = 1.532653e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 1.532493e-41.

Warning: Matrix is close to singular or badly scaled. Results may be inaccurate.

RCOND = 6.430513e-43.



Published with MATLAB® R2021b