

appendix A: 99-line MATLAB code: RDBLS2D

```

1 function RDBLS2D(tau,dt,dv,nx,ny,Vmax)
2 %% Step 1: initialize parameters
3 [E,nu] = deal(1,0.3);
4 N = [1 23 23 1; 23 529 529 23; 23 529 529 23; 1 23 23 1]/2304;
5 PHICoeff = ones(ny+3,nx+3);
6 phie=conv2(PHICoeff,N,'valid');
7 x= phie>0;
8 V0=mean(x(:));
9 %% Step 2: prepare for FEM
10 [KE] = lk(E,nu);
11 nodenrs = reshape(1:(1+nx)*(1+ny),1+ny,1+nx);
12 edofVec = reshape(2*nodenrs(1:end-1,1:end-1)-1,nx*ny,1);
13 edofMat = repmat(edofVec,1,8)+repmat([0 1 2*(ny+1)+[0 1 2 3] 2
14 ],nx*ny,1);
15 iK = reshape(kron(edofMat,ones(8,1))',64*nx*ny,1);
16 jK = reshape(kron(edofMat,ones(1,8))',64*nx*ny,1);
17 F = sparse(2*(ny+1)*(nx+1),1);
18 U = zeros(2*(ny+1)*(nx+1),1);
19 F(2*(nx*(ny+1)+round(ny/2)+1)) = -1; % Cantilever (right middle point)
20 freedofs = true(size(F));
21 freedofs([1:2*(ny+1)]) = false; % Cantilever (left line)
22 %% STEP 3: assemble reaction diffusion matrices: NN dNdN
23 [NNe,dNdNe]=getNNe(1,1);
24 Bnrs=reshape(1:(nx+3)*(ny+3),ny+3,nx+3);
25 BVec=reshape(Bnrs(1:ny,1:nx),nx*ny,1);
26 BMat = zeros(nx*ny,16);
27 BMat(:,[1:4:end 2:4:end 3:4:end
28 4:4:end])=repmat(BVec,1,16)+repmat([0:3 ny+3:ny+6 2*ny+6:2*ny+9
29 3*ny+9:3*ny+12],nx*ny,1);
30 iN = reshape(kron(BMat,ones(16,1))', 256*nx*ny,1);
31 jN = reshape(kron(BMat,ones(1,16))',256*nx*ny,1);
32 sNN = reshape(NNe(:)*ones(1,nx*ny),256*nx*ny,1);
33 NN = sparse(iN,jN,sNN);
34 sNNdif = reshape(dNdNe(:)*ones(1,nx*ny),256*nx*ny,1);
35 dNdN = sparse(iN,jN,sNNdif);
36 T = decomposition(NN + dt*tau*dNdN, 'chol', 'lower');
37 for iterNum = 1:30
38 V0=max(Vmax,V0*dv);
39 %% Step 4: FEM & sensitivity analysis
40 x=max(1e-4,x);
41 sK = reshape(KE(:)*x(:)',64*nx*ny,1);
42 K = sparse(iK,jK,sK);
43 K = (K+K')/2;
44 U(freedofs) = K(freedofs,freedofs) \ F(freedofs);
45 dc = -x.*reshape(sum((U(edofMat)*KE).*U(edofMat)),2),ny,nx);
46 compEng(iterNum) = -sum(dc(:));
47 disp(['It.: ' num2str(iterNum) ' Compl.: '
48 num2str(compEng(iterNum)) ' Vol.: ' num2str(mean(x(:)))]);

```

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Huangqi Zhang



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 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Appendix Matlab Codes Springer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Appendix Matlab Codes Springer
 - Personalized Recommendations
 - Appendix Matlab Codes Springer User Reviews and Ratings
 - Appendix Matlab Codes Springer and Bestseller Lists
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- Appendix Matlab Codes Springer Budget-Friendly Options
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 - Highlighting and Note-Taking Appendix Matlab Codes Springer
 - Interactive Elements Appendix Matlab Codes Springer
- 8. Staying Engaged with Appendix Matlab Codes Springer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Appendix Matlab Codes Springer
- 9. Balancing eBooks and Physical Books Appendix Matlab Codes Springer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Appendix Matlab Codes Springer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Appendix Matlab Codes Springer
 - Setting Reading Goals Appendix Matlab Codes Springer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Appendix Matlab Codes Springer
 - Fact-Checking eBook Content of Appendix Matlab Codes Springer
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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