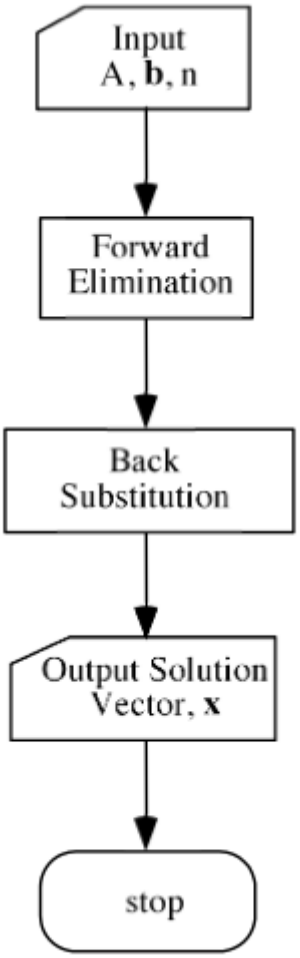
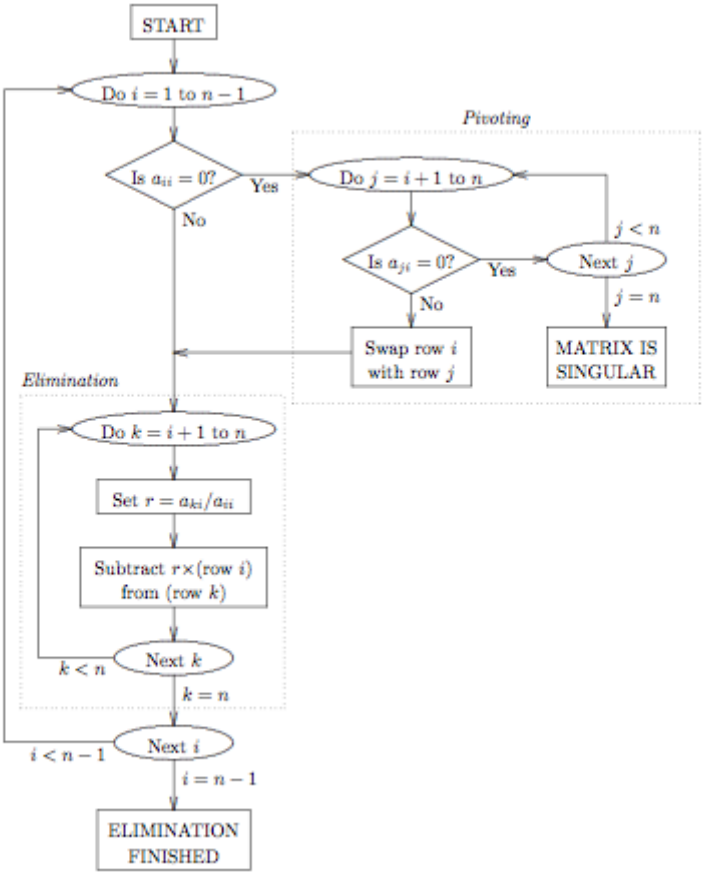
- Start
- Declare the variables and read the order of the matrix n.
- Take the coefficients of the linear equations as:
  Do for k=1 to n
  Do for j=1 to n+1
  Read a[k][j]
  End for j
  End for k
- Do for k=1 to n-1
  Do for i=k+1 to nDo for j=k+1 to n+1
  a[i][j]=a[i][j]-a[i][k]/a[k][k]*a[k][j]
  End for j
  End for i
  End for k
- Compute x[n]=a[n][n+1]/a[n][n]
- Do for k=n-1 to 1
  sum=0
  Do for j=k+1 to nsum=sum+a[k][j]*x[j]
  End for j
  x[k]=1/a[k][k]*(a[k][n+1]-sum)
  End for k
- Display the result x[k]
- Stop

Flow Chart:

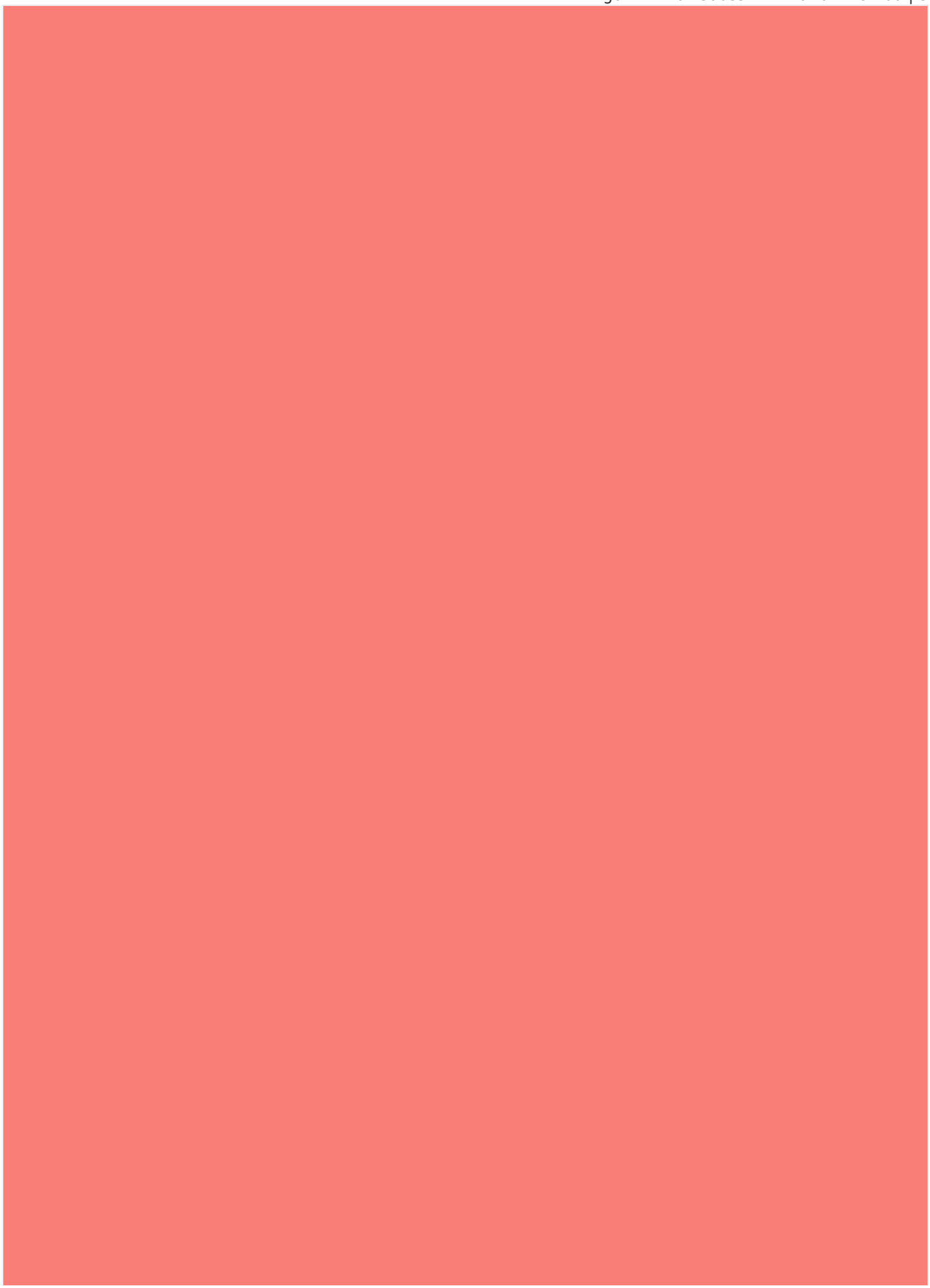


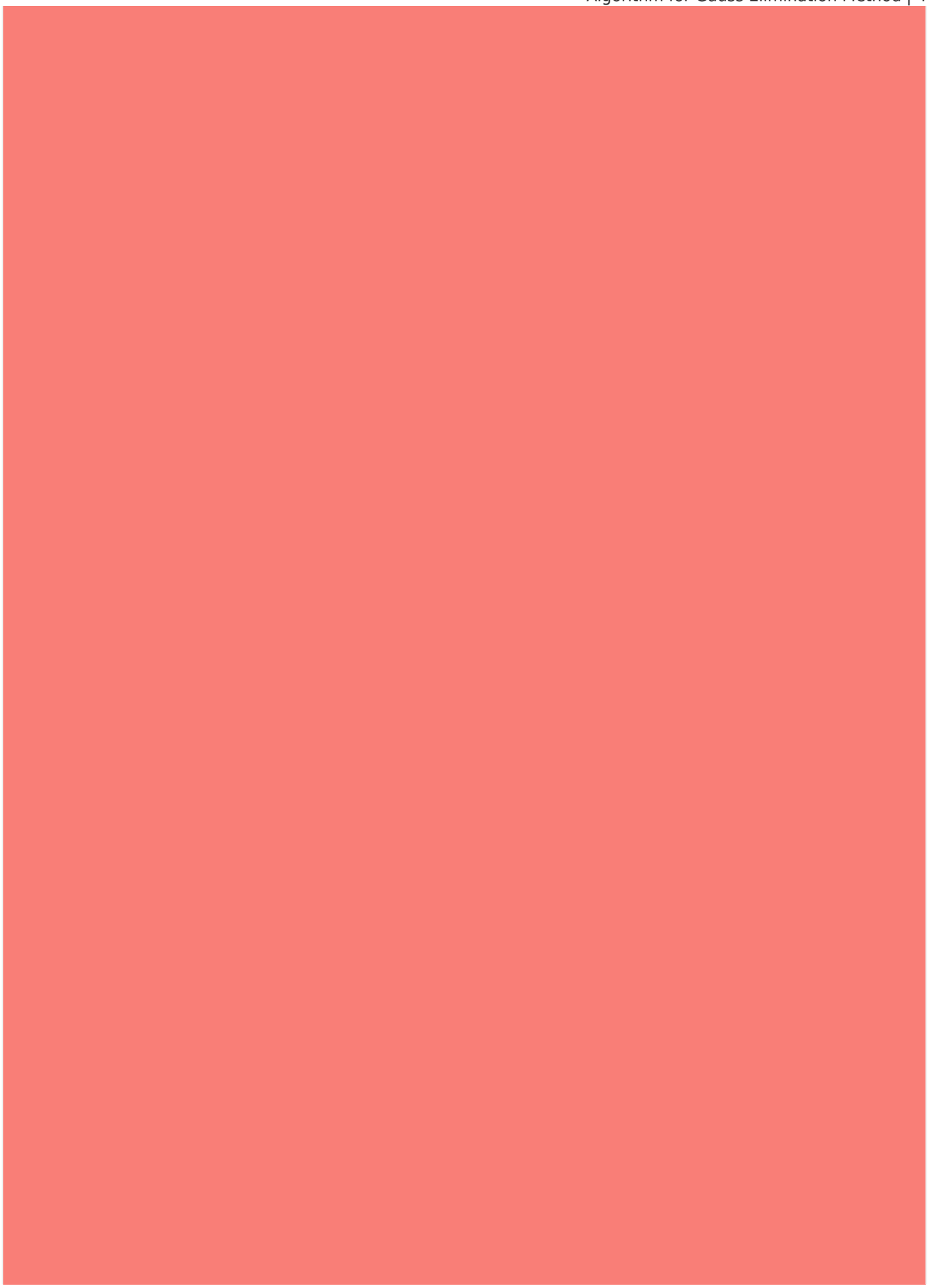


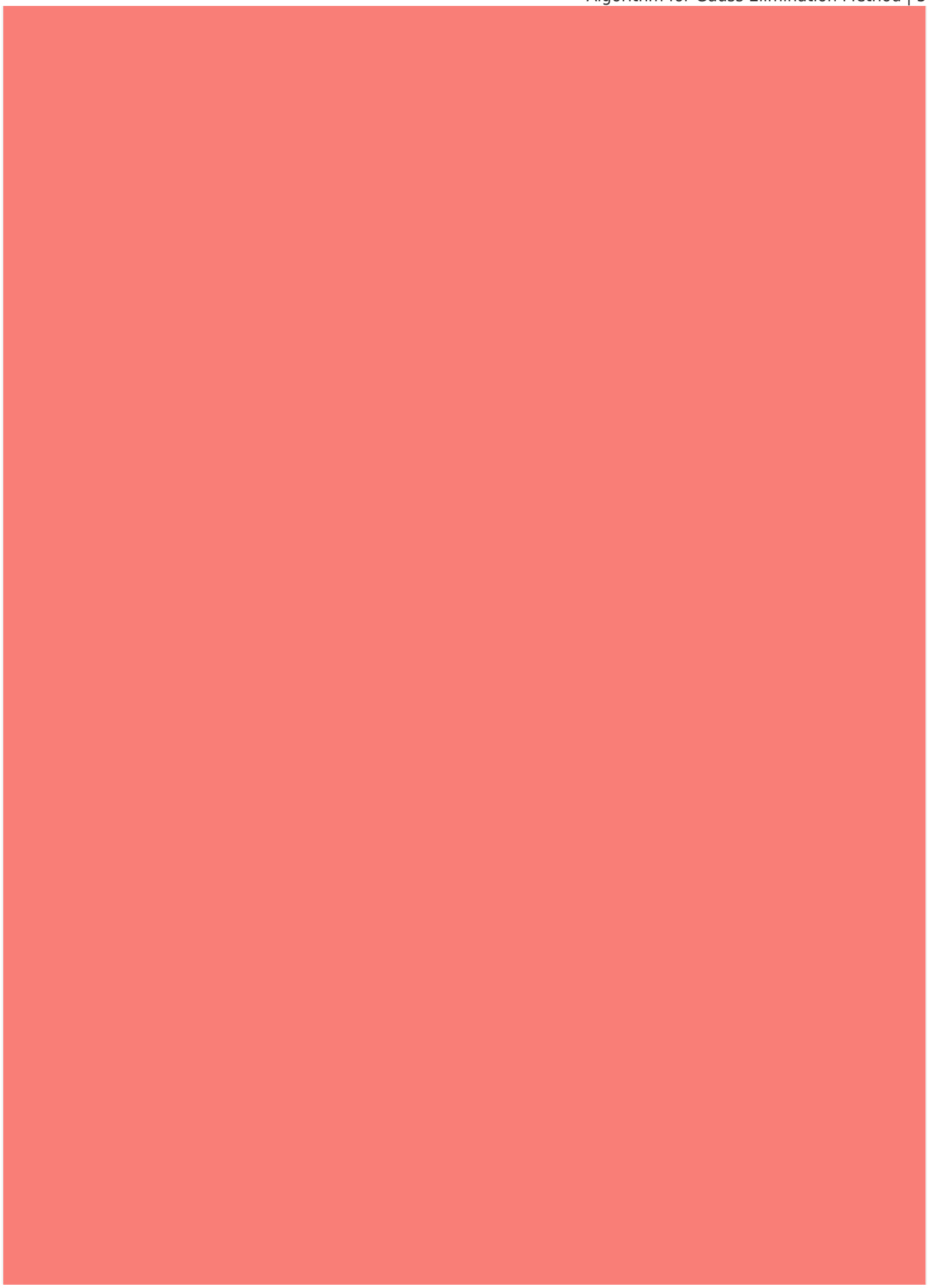
Manas Sharma

I'm a physicist specializing in computational material science with a PhD in Physics from Friedrich-Schiller University Jena, Germany. I write efficient codes for simulating light-matter interactions at atomic scales. I like to develop Physics, DFT, and Machine Learning related apps and software from time to time. Can code in most of the popular languages. I like to share my knowledge in Physics and applications using this Blog and a YouTube channel.

manas.bragitoff.com/







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