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PCG Solver

```
1  $\mathbf{x}_0$  = initial guess
2  $\mathbf{r}_0 = \mathbf{b} - \mathbf{A}\mathbf{x}_0$ 
3  $\mathbf{p}_{-1} = 0, \beta_{-1} = 0$ 
4 Solve for  $\mathbf{w}_0$  in  $\mathbf{K}\mathbf{w}_0 = \mathbf{r}_0$  (Preconditioning)
5  $\rho_0 = \mathbf{r}_0 \cdot \mathbf{w}_0$ 
6 for  $i = 0, 1, 2, \dots$ 
7    $\mathbf{p}_i = \mathbf{w}_i + \beta_{i-1}\mathbf{p}_{i-1}$ 
8    $\mathbf{q}_i = \mathbf{A}\mathbf{p}_i$ 
9    $\alpha_i = \rho_i / \mathbf{p}_i \cdot \mathbf{q}_i$ 
10   $\mathbf{x}_{i+1} = \mathbf{x}_i + \alpha_i \mathbf{p}_i$ 
11   $\mathbf{r}_{i+1} = \mathbf{r}_i - \alpha_i \mathbf{q}_i$ 
12  if  $\mathbf{x}_{i+1}$  accurate enough then quit
13  Solve for  $\mathbf{w}_{i+1}$  in  $\mathbf{K}\mathbf{w}_{i+1} = \mathbf{r}_{i+1}$ 
14   $\rho_{i+1} = \mathbf{r}_{i+1} \cdot \mathbf{w}_{i+1}$ 
15   $\beta_i = \rho_{i+1} / \rho_i$ 
16 end
```

- Iterative algorithm for solving linear systems
- Solves $\mathbf{Ax}=\mathbf{b}$
- Each iteration computes vector \mathbf{x} and \mathbf{r} , the residual \mathbf{r} is checked for convergence.



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I Guardiani cercano di stare un passo avanti a Nerissa e ai suoi Cavalieri della Distruzione, che sono in implacabile perseguimento, della nonna di Hay Lin, Yan Lin! 867624ce0b

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