

405 Special Matrix Flow Diagram

Definitions and Notations. All Matrices are $n \times n$.

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| <ol style="list-style-type: none"> 1. $\mathcal{I}_n = \{\text{involutory matrices}\}$ 2. $\Pi_n = \{\text{projections}\}$ 3. $\mathcal{E}_n = \{\text{idempotents}\}$ 4. $Sc_n = \{\text{scalar matrices}\}$ 5. $\mathcal{D}_n = \{\text{diagonal matrices}\}$ 6. $\tau_n = \{\text{upper triangular matrices}\}$ 7. $\mathcal{U}_n = \{\text{strictly Upper Triangular matrices}\}$. 8. $\mathcal{P}_n = \{\text{permutation matrices}\}$ | <ol style="list-style-type: none"> 9. $St_n = \{\text{stochastic matrices}\}$ 10. $\eta_n = \{\text{nilpotent matrices}\}$ 11. $\mathcal{H}_n = \{\text{upper Hessenberg matrices}\}$ 12. $NN_n = \{\text{non-negative matrices}\}$ 13. Norm = $\{\text{normal matrices}\}$ 14. Herm = $\{\text{hermitian matrices}\}$ 15. SS = $\{\text{semi-simple matrices}\}$ 16. RSym = $\{\text{real symmetric matrices}\}$ |
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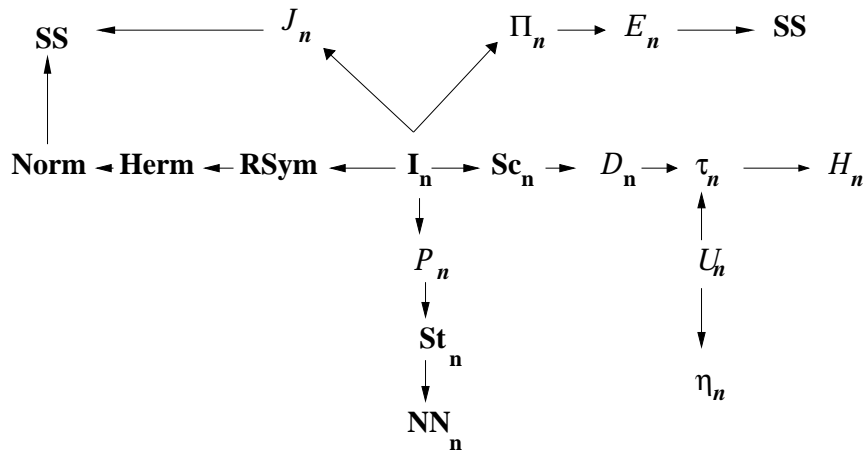


Figure 1: Special Matrix Flow