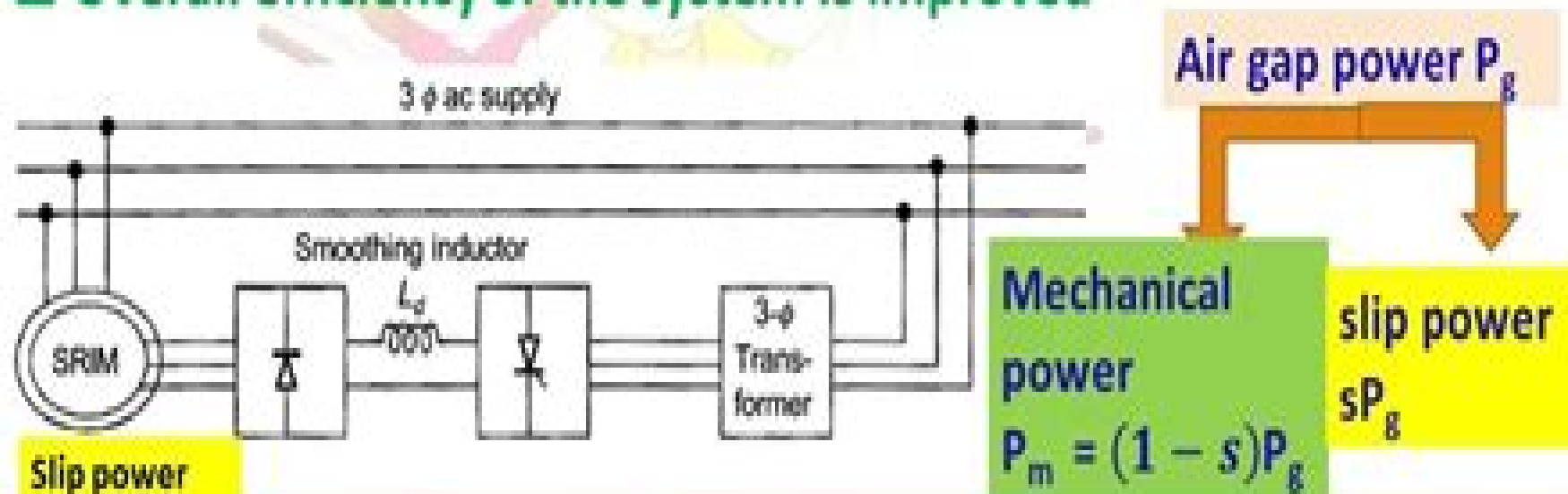


Slip power recovery system

- ❑ Slip power can be returned to the supply.
- ❑ An additional motor which is mechanically coupled to the main motor can be supplied using this slip power.
- ❑ Overall efficiency of the system is improved



Slip Power Recovery Induction Motor

JAGANNATHAN, V.



Slip Power Recovery Induction Motor:

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coverage of the synchronous generators alternators synchronous motors three phase and single phase induction motors and various special machines The book is structured to cover the key aspects of the course Electrical Machines II The book starts with the explanation of basics of synchronous generators including construction winding details and $e m f$ equation The book then explains the concept of armature reaction phasor diagrams regulation and various methods of finding the regulation of alternator Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book The book further explains the concept of synchronization of alternators two reaction theory and parallel operation of alternators The chapter on synchronous motor provides the detailed discussion of construction working principle behavior on load analysis of phasor diagram Vee and Inverted Vee curves hunting and applications The book further explains the three phase induction motors in detail It includes the construction working effect of slip torque equation torque ratios torque slip characteristics losses power flow equivalent circuit effect of harmonics on the performance and applications This chapter includes the discussion of induction generator and synchronous induction motor The detailed discussion of circle diagram is also included in the book The book teaches the various starting methods speed control methods and electrical braking methods of three phase induction motors Finally the book gives the explanation of various single phase induction motors and special machines such as reluctance motor hysteresis motor repulsion motor servomotors and stepper motors The discussion of magnetic levitation is also incorporated in the book The book uses plain lucid language to explain each topic The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy Each chapter is well supported with necessary illustrations self explanatory diagrams and variety of solved problems The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

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