



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF MECHATRONICS

19MCB302– INDUSTRIAL ELECTRONICS & APPLICATION III YEAR V SEM

UNIT 2 – PHASE CONTROLLED CONVERTER

TOPIC –Dual Converter

Mr. M.Anand., M.E.,(Ph.D.,)

ASSISTANT PROFESSOR,

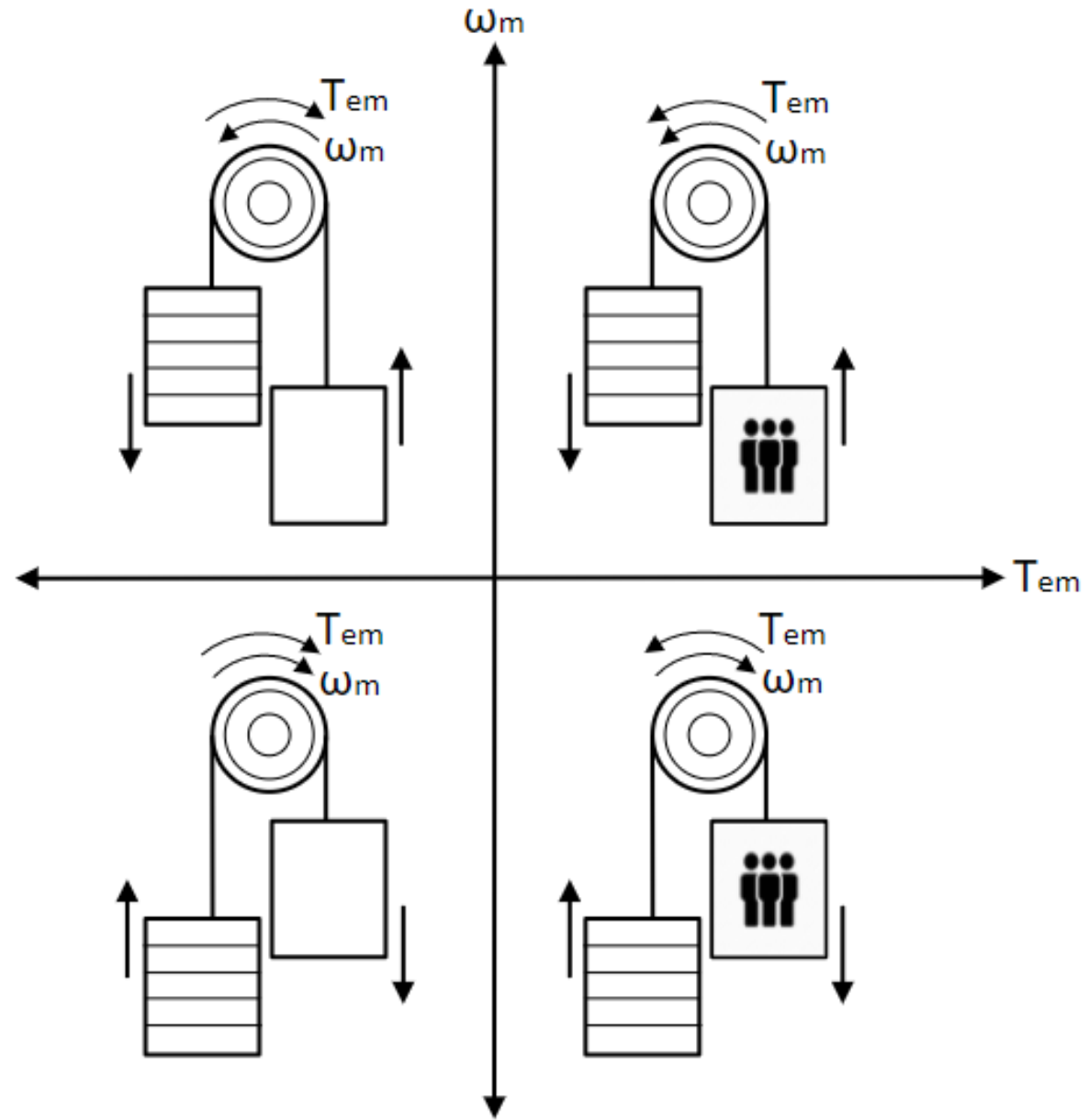
DEPARTMENT OF MECHATRONICS,

SNSCT, Coimbatore.





APPLICATION





Intro-Dual Converter

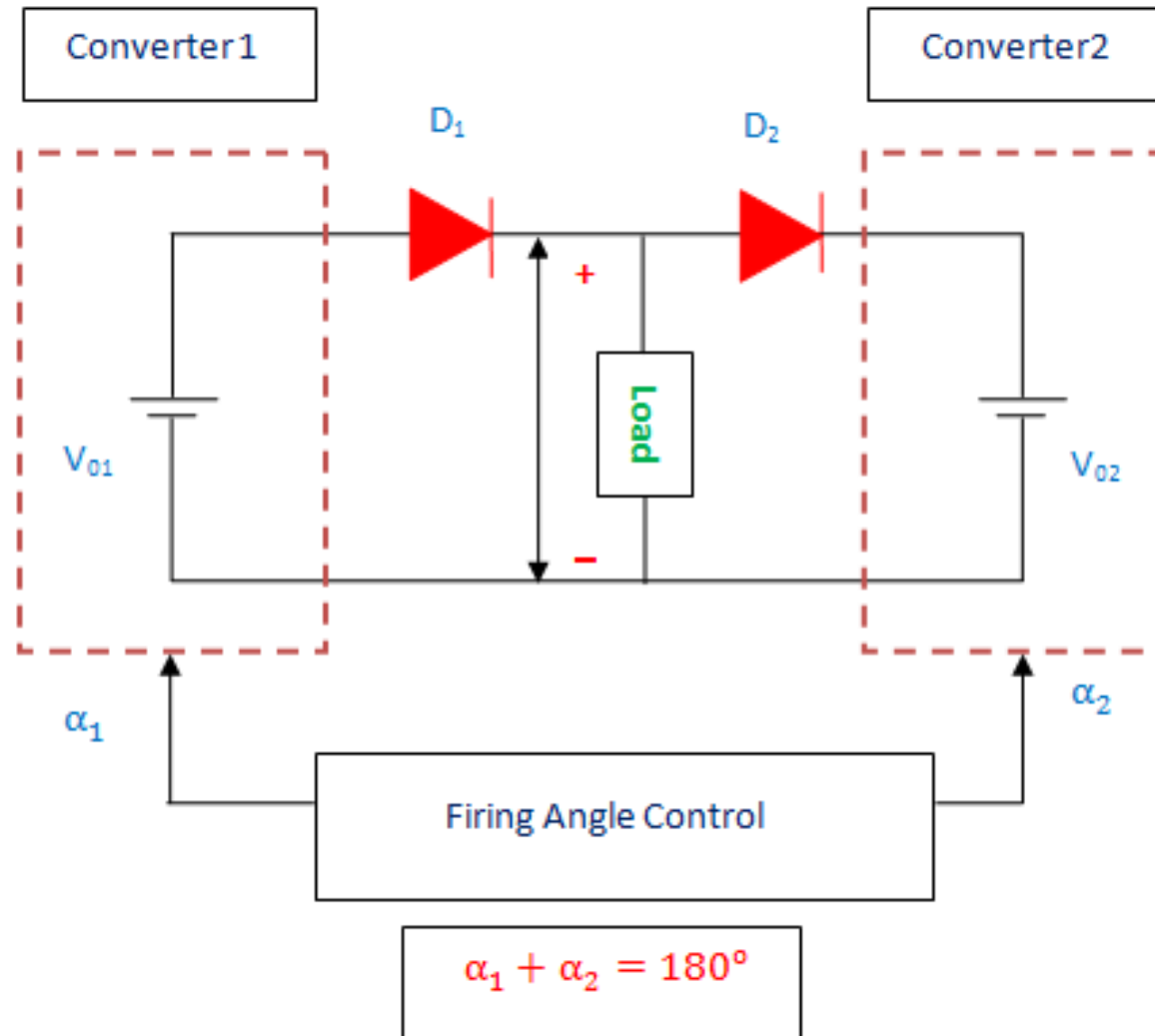
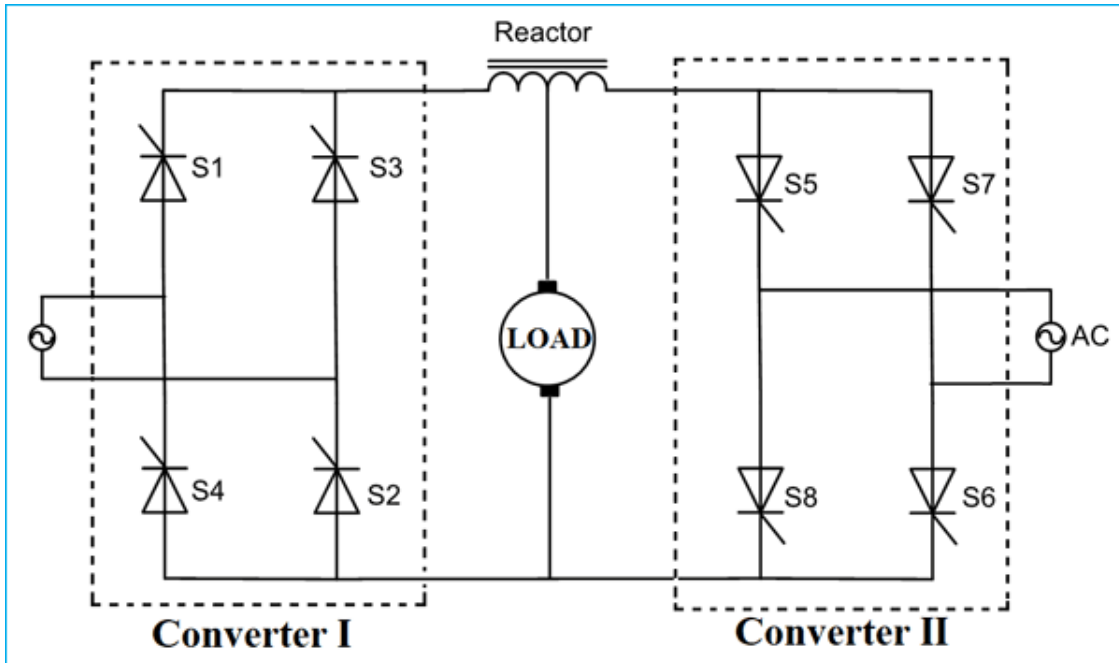


Figure 3



Single phase Dual Converter



8 SCR



controlled converter

Input



Single phase AC

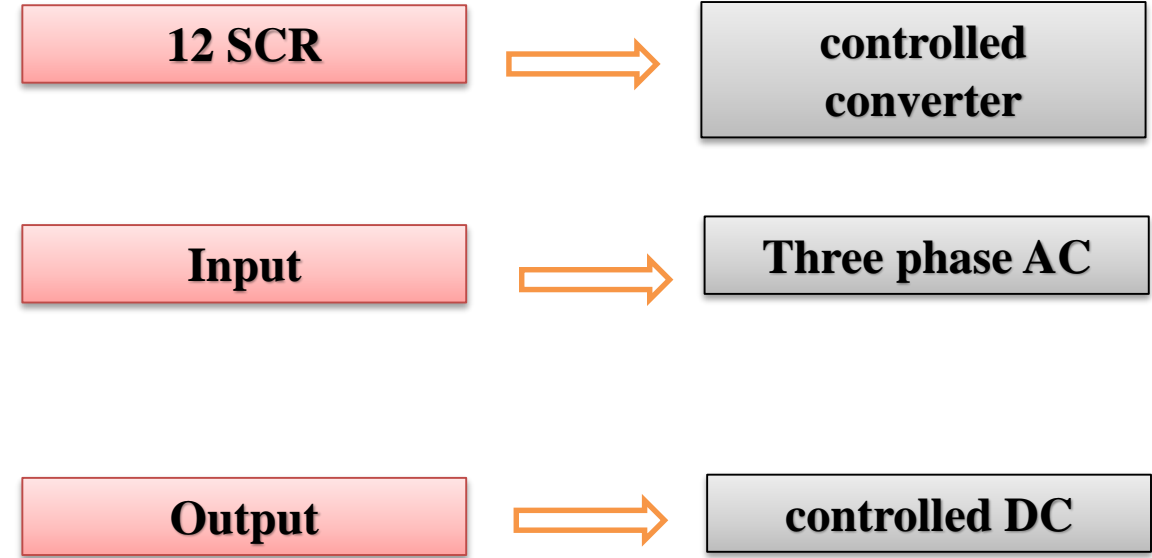
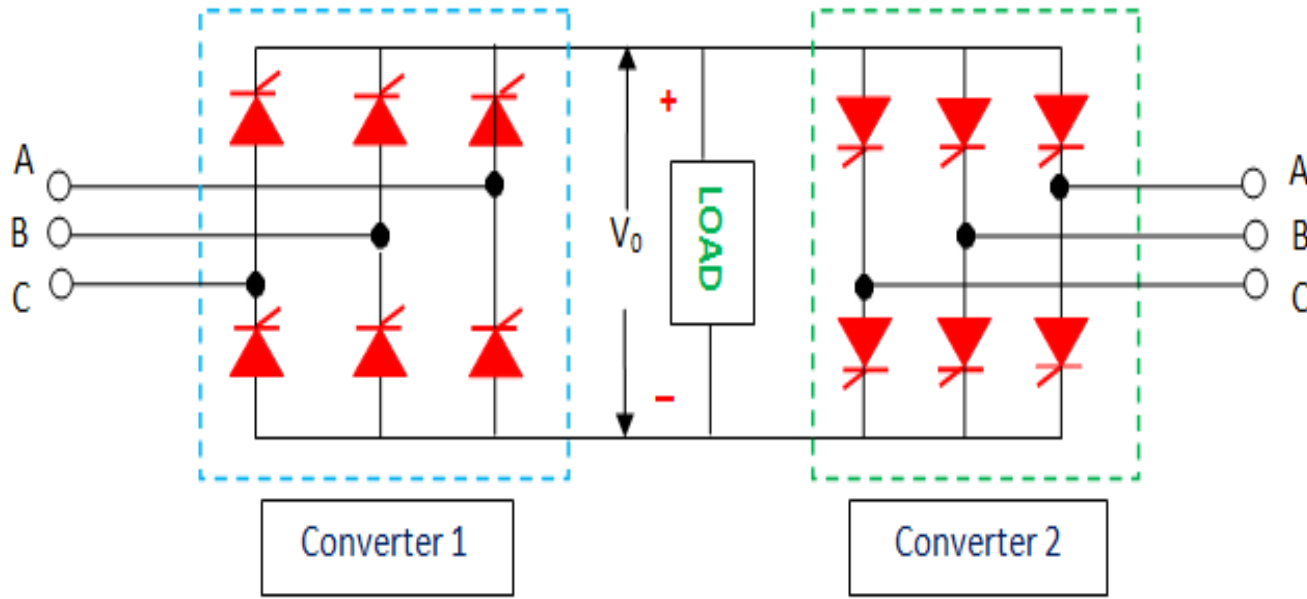
Output

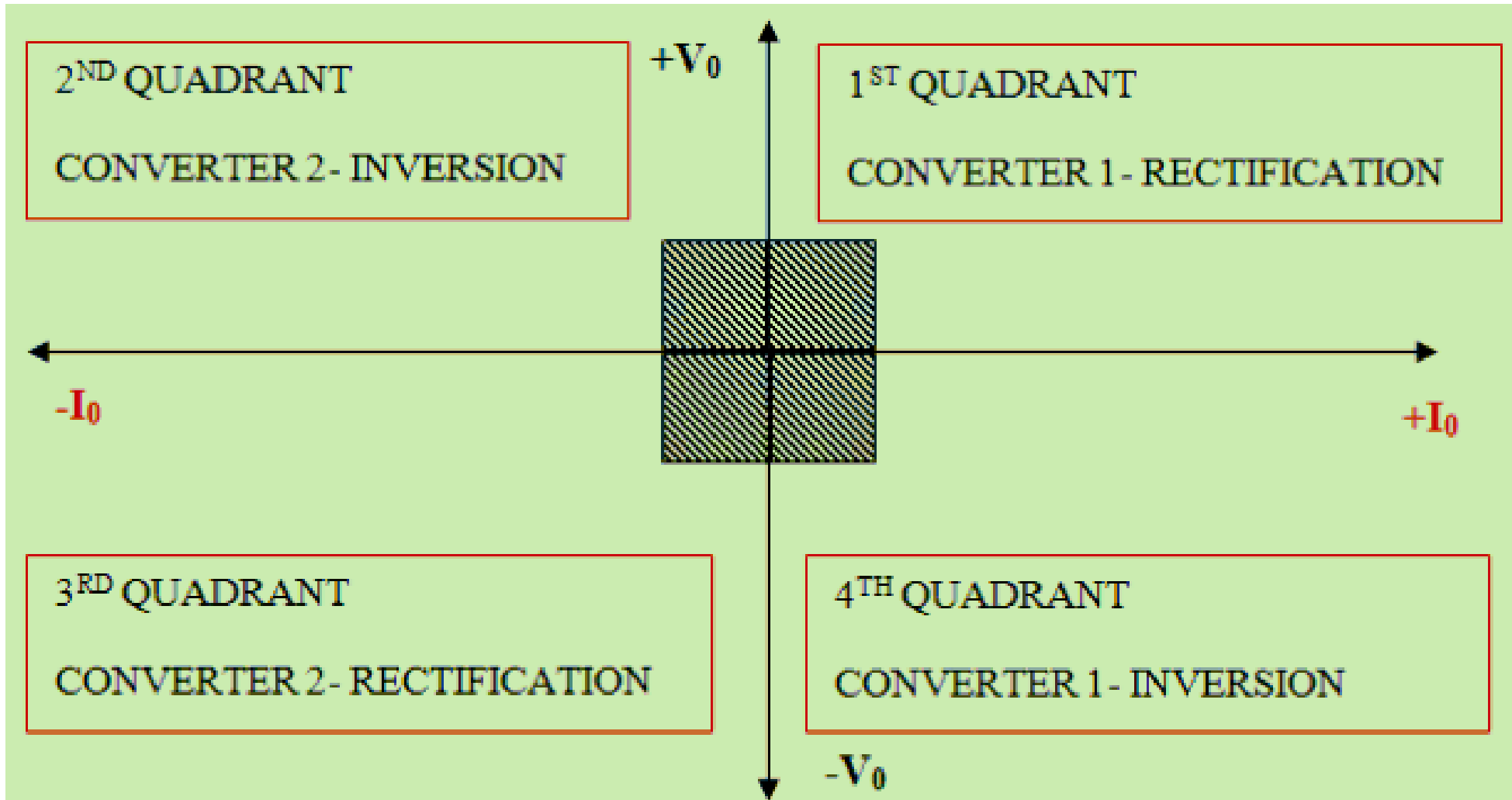


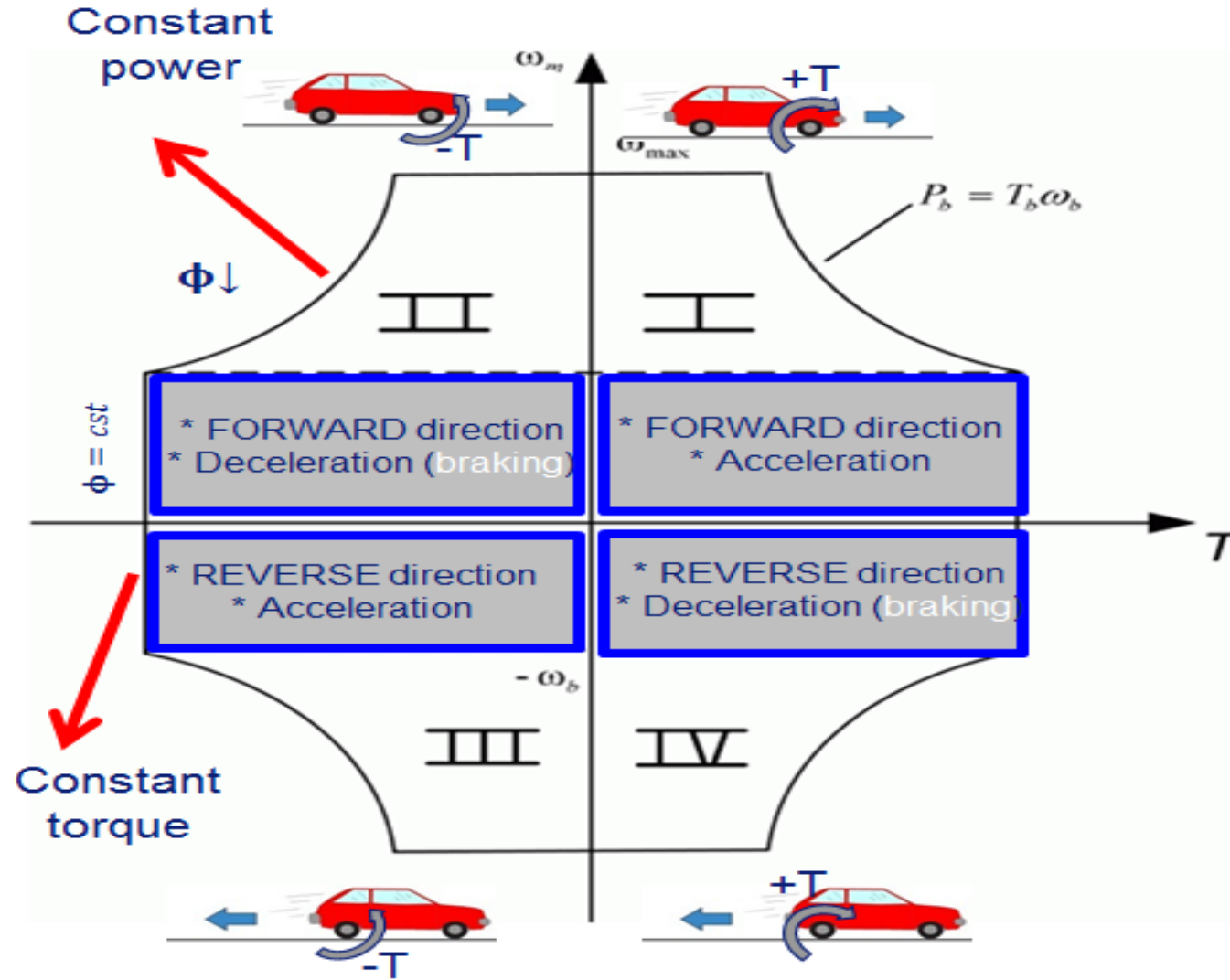
controlled DC



Three phase Dual Converter

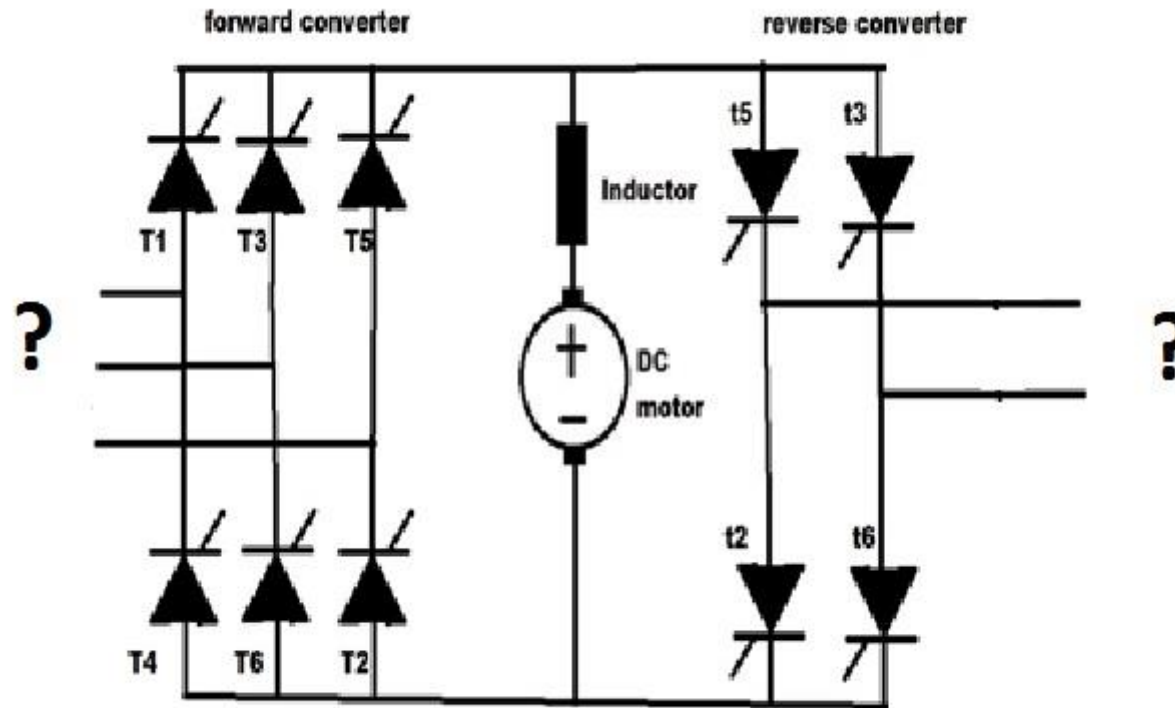








Assessment - Any mistakes in given circuit..?What is the input of the circuit ?





References

1. <https://www.electronics-tutorials.ws/power/single-phase-rectification.html>
2. https://www.tutorialspoint.com/power_electronics/power_electronics_introduction.htm#:~:text=Power%20Electronics%20refers%20to%20the,efficiency%20and%20reliability%20is%20100%25.
3. <http://www.egr.unlv.edu/~eebag/EE-442-642%20Introduction%20F1>
4. <https://www.youtube.com/watch?v=djbJm-xWo2w>
5. <https://www.youtube.com/watch?v=jx5l2Fbil8U>

