

DEDICATION

This work is dedicated:

*To my parents with all the love and
respect*

To my family with the best wishes.

ACKNOWLEDGEMENT

I wish to express my deepest appreciation, thanks and sincere gratitude to my supervisor Abdalla Salih for his continues assistance, guidance, encouragement an endless help throughout the period of this research. My sincere thanks and appreciation to the head and the staff of the electrical engineering department .Also I would like To extend my thanks particularly to those who have helped me in this work Last, but not least ,I wish to express thanks to my family for their patience and under-standing.

Abstract

The objective of this project is to control sharing of loads between two Generators using op-amp and digital electronic Circuit. If the load is 50% of the full load at the moment of power failure, one generator start up and feed the load. Also If the load is more than 50% of the full load at the moment of power failure, the second generator will start up and feed the bus bar. Also during the sharing of loads if some parts of the load are taken off and the loads became 50% or less, one of the two generators will shut down after certain time.

الخلاصة

الهدف من هذا المشروع التحكم فى المشاركة فى الحمل بين مولدين عن طريق استخدام المكبر التشغيلي والدوائر الرقمية . اذ كان الحمل عند انقطاع التيار فى حدود ٥٠% ، يقوم مولد واحد بتغذية الحمل واذا كان الحمل عند انقطاع التيار اكبر من ٥٠% ، يعمل المولد الثانى مع المولد الاول لتغذية الحمل . كذلك اذا كانت هناك بعض الاقسام تم ايقاف العمل بها والحمل اصبح ٥٠% او اقل فان احد المولدين يتم ايقافه اليا بعد فترة زمنية محددة.

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بسم الله الرحمن الرحيم

قال تعالى:

{ن والقلم وما يسطرون}

صدق الله العظيم

الاية (١) سورة القلم

