

## PREFACE

Alhamdulillah rabbi'l'amin. Thanks to Allah SWT, who has been giving me His blessing and merciful to accomplish the thesis entitled "Performance Analysis of Bandwidth Efficiency for Satellite Backhaul Link in Single Channel Per Carrier Systems". This thesis is presented to meet one of the requirements to obtain Master Degree of Electro-Telecommunication in School of Electrical Engineering, Telkom University, Bandung, Indonesia.

I would like to express my sincere gratitude to everyone who has helped me in this thesis as follows:

1. Dr. Nachwan Mufti Adriansyah, as thesis supervisor I, who has provided guidance and advice during the preparation, research and writing of this thesis.
2. Dr. Ing. Fiky Y. Suratman, as thesis supervisor II, for his continuous support and motivation.
3. All Lecturer and Staff of Telkom Engineering School, in Telkom University, who have transferred much knowledge and help to me during study at the Telkom University.
4. The writer's beloved Parents: Sukir and Sarinah. Thank you so much for your prayer, support, affection, advices, guidance, and help in all my life.
5. The writer's beloved wife Indah Ayu Elda. Thank you so much for your prayer, understanding, support, and affection to help in the long journey of this thesis.
6. Students Fellow of Electro-Telecommunication Engineering Graduate Program in School of Electrical Engineering, Telkom University, who has always given the spirit to the completion of this thesis.

The writer realize that this writing is too many weaknesses, therefore suggestions and constructive criticism are expected to achieve the better results in the future. Finally, may Allah SWT receives all their support, effort and kindnesses. Aamiin Yaa Rabbal 'Alamiin.

Bandung, August 28<sup>th</sup>, 2017

Sugeng Sugiarto