



CHAPTER I
INTRODUCTION

The demand for power in Thailand is increasing at a large rate and is far greater than expected. The best expansion is produced by careful planning. The power system should be efficient, economic and reliable, since it is the only major source of power in this country. The knowledge of power system should be well studied and defects should be predicted. The system should be well designed that it is at optimum. One of the best tools used for study is a digital computer. It is highly efficient, economic for the solution of power system problem. It has ability to simplify the complicate system.

The purpose of the research is to obtain experience of power system analysis with the object of providing valuable information concerning the operation of the present and future electrical power transmission system in Thailand.

The scope of the research includes method of computing load flow with reference to the power system of Thailand.

The method for solving the problem is tried to keep track on the 'Gupta and Humphrey Davie's method', a matrix inversion is introduced for a simultaneous equations solving. It has been proved to be one of the best method .