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DEVELOPEMENT OF COMPUTER PROGRAMS IN HYDROLOGY

by

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PREFACE

Computer oriented methods of solving engineering problems are proving more and more useful recently. With recent developement of computer technology, it has become possible to accurately solve complex engineering problems with great speed.

It is important to realize from the offset that the digital computer is merely a tool in the hands of its user. In contrast to mechanical tools which increase man's energy processing abilities, the computer is a logical tool which increases his ability to process information.

In this report I have developed twelve programs using FORTRAN language in the field of Hydrology which involves complex mathematical calculations and in many cases the same data are handled repeatedly.

In every chapter I have included brief theory on the topic described in the chapters, users manual, generalized program flow chart, program listing,program output and worked examples using hand computation. The users manual consists of :- (i) Arrangement of data cards, (ii) Data input specification and (iii) Definations of variables used in program.

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CONTENTS

Preface i

Acknowledgements ii

Contents iii

List of figures ix

List of tables xi

1 Atmospheric Moisture 1

1.1 Computer program on atmospheric moisture (users manual) 5

1.1.1 Arrangement of data cards 5

1.1.2 Data input specification 5

1.1.3 Defination of variables 7

1.1.4 Generalized program flow chart 8

1.1.5 Program output 9

1.1.6 Sample calculation 10

2 Precipitation analysis 12

2.1 Estimation of missing data 13

2.2 Average depth of rainfall over an area 15

2.3 Computer program on estimation of missing data (users manual) 20

2.3.1 Arrangement of data cards 20

2.3.2 Data input specification 22

2.3.3 Defination of variables 25

2.3.4 Generalized program flow chart 26

2.3.5 Program output 31
2.3.6 Sample calculation 33
2.4 Computer program on areal average precipitation (users manual) 36
2.4.1 Arrangement of data cards 36
2.4.2 Data input specification 38
2.4.3 Defination of variables 41
2.4.4 Generalized program flow chart 43
2.4.5 Program output 49
2.4.6 Sample calculation 51

3 Hydrograph 57
3.1 Unit hydrograph 59
3.1.1 Principle of unit hydrograph 59
3.1.2 Application of the principle 60
3.2 Unit hydrograph for various durations 66
3.3 Unit hydrograph from complex storms 70
3.4 Computer program to derive a unit hydrograph from complex hydrograph (users manual) 79
3.4.1 Arrangement of data cards 79
3.4.2 Data input specification 80
3.4.3 Defination of variables 82
3.4.4 Generalized program flow chart 83
3.4.5 Program output 87
3.4.6 Sample calculation 89
3.5 Computer program to derive a complex hydrograph from a unit hydrograph (users manual) 92
3.5.1 Arrangement of data cards 92