THE
FUNDAMENTAL PRINCIPLES
OF
IRRIGATION ENGINEERING
THE FUNDAMENTAL PRINCIPLES OF IRRIGATION ENGINEERING

[A BASIC TEXT BOOK FOR DIPLOMA STUDENTS]

by

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[IN METRIC AND BRITISH SYSTEMS OF UNITS]

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Ah Love! Could thou and I with Fate conspire
To grasp this sorry Scheme of Things entire,
Would not we shatter it to bits — and then
Remould it nearer to our Heart's Desire.

— Omar Khayām

Dedicated

to

Our Heart's Desire
DR. M. VISVESVARAYA (Bharat Ratna)
The wizard of engineering
FOREWORD

to

the first edition of original volume

This book on "Irrigation Engineering" by Prof. V. B. Priyani furnishes in concise, clearly intelligible language, illustrated by appropriate drawings or sketches, descriptions on the numerous structures connected with irrigation and, of the various practices followed in the distribution of water to crops. Although necessarily brief, they cover most of the designs used and the methods followed in some part or other of the irrigation systems scattered over India.

As the present day engineering graduates and practising engineers have not taken to writing such books, this specific attempt seems deserving of support to encourage the practice of bringing speedily to notice the latest developments of value on this subject both in India and elsewhere.

Since Government have taken up the construction of huge reservoir dams and extensive canal systems for their 'Grow More Food' campaign, individual efforts like this should receive special commendation and support so that other engineers of capacity and merit might adopt the practice of writing similar publications and thereby enrich and popularise the irrigation systems of the country.

Bombay
25th January 1954

M. Visvesvaraya