

CONTENTS

<u>CHAPTER NO.</u>	<u>PAGE NO.</u>
I INTRODUCTION	1-28
1.1 Emphasis on Capital Accumulation in Developing Nations	
1.2 Technological Progress and productivity	
1.3 Indian Experience of Technical Change	
1.4 Retrospects of Adoption of New Technologies	
1.5 Retrospects of Transfer of Technology	
1.6 Methodology	
1.7 Data Base and Definitions of Variables	
1.7.1 Measurement of Output	
1.7.2 Measurement of Labour Input	
1.7.3 Measurement of Capital	
1.7.4 Measurement of Fuel Consumed	
1.8 Hypotheses	
1.9 Chapter Scheme	
II OVERVIEW OF INDUSTRIALISATION OF THE INDIAN ECONOMY	29-53
2.1 Introduction	
2.2 Process of Industrialisation	
2.3 Paths of Development	
2.4 Indian Experiences	
2.4.1 Evolution of Industrial policy	
2.4.2 The Policy of Self-Reliance and import Substitution	
2.4.3 Phases of Industrial Development	
2.4.4 Diversifying Structure of Indian Industries	
2.5 Growth Performance of Indian Industry	
2.5.1 Industrial Growth During 1951-68	
2.5.2 Industrial Growth during 1965-76	
2.5.3 Recovery Period of 1980s	
2.5.4 Performance During 1980s	
2.6 Observations	

III CAPITAL INTENSIVE INDUSTRIALISATION 54-97

- 3.1 Introduction
- 3.2 Capital Intensity Measures
- 3.3 Choice of Techniques
 - 3.3.1 Labour Intensive Techniques of Production
 - 3.3.2 Capital Intensive Techniques of Production
 - 3.3.3 Appropriate Technologies for Developing Countries
- 3.4 Approach to Industrialisation An Indian Experience
 - 3.4.1 Emphasis on Public Sector
 - 3.4.2 Emphasis on Heavy and Capital Goods Industries
 - 3.4.3 Incremental Capital-Output Ratio (ICOR)
- 3.5 Studies on Capital Intensity in Indian Manufacturing
- 3.6 Analysis of Growing Capital Intensity and Labour Productivity
 - 3.6.1 Trend Growth of Output, Capital Intensity and Labour Productivity
 - 3.6.2 Decomposition Analysis
- 3.7 Measurement of Efficiency
- 3.8 Rising Fuel Intensity in the Manufacturing Sector
- 3.9 Observations

IV PARTIAL PRODUCTIVITY AND TOTAL FACTOR PRODUCTIVITY IN INDIAN MANUFACTURING 98-146

- 4.1 Introduction
- 4.2 Approaches to the measurement of Productivity
- 4.3 Studies on Partial Factor Productivity
 - 4.3.1 Partial Factor Productivity . Labour and Capital Productivities
 - 4.3.1.1 Food and Food Products (20-21)
 - 4.3.1.2 Beverages, Tobacco and Tobacco Products (22)
 - 4.3.1.3 Cotton Textiles (23)
 - 4.3.1.4 Wool, Silk and Synthetic Fibre Textiles (24)
 - 4.3.1.5 Jute, Hemp and Mesta Textiles (25)
 - 4.3.1.6 Textile Products (26)
 - 4.3.1.7 Wood and Wood Products (27)
 - 4.3.1.8 Paper and Paper Products (28)
 - 4.3.1.9 Leather and Leather Products (29)
 - 4.3.1.10 Rubber, Plastic, Petroleum and Coal Products (30)
 - 4.3.1.11 Chemical and Chemical Products (31)
 - 4.3.1.12 Non-metallic Minerals Industry (32)
 - 4.3.1.13 Alloy and Alloy Products (33)
 - 4.3.1.14 Metal and Metal Products (34)
 - 4.3.1.15 Machinery, Electrical and Non-electrical (35-36)

	4 3 1 16	Transport and Transport Equipment Industry (37)	
	4 3.1 17	All Manufacturing Sector	
	4 3 2	Problems in Partial Productivity Analysis	
4.4		Total Factor Productivity : Measurement & Measures	
	4.4.1	Measures of TFPG	
	4.4.2	Major Studies of TFPG in Indian Manufacturing Sector	
	4.4.3	Results of the Study	
	4.4.3.1	Kendrick Measure of TFPG	
	4 4 3 2	Solow Measure of TFPG	
4 5		Observations	
V		PRODUCTIVITY, TECHNICAL CHANGE IN INDIAN MANUFACTURING	147-184
5.1		Introduction	
5.2		Production Function · Theoretical Approaches	
	5 2.1	Different Forms of Production Functions	
	5 2 1.1	Leontief or Fixed Coefficient Production Function	
	5.2.1.2	Linear Form of Production Function	
	5 2 1.3	Cobb-Douglas Production Function	
	5 2 1 4	Constant Elasticity of Substitution (CES) Production Function	
	5 2 1 5	Variable Elasticity of Substitution (VES) Production Function	
	5.2.1 6	Translog Production Function	
5.3		Production Function Estimates · Major Studies	
	5 3.1	Studies on Returns to Scale	
	5.3.2	Studies on Technical Change (TFPG)	
	5 3.3	Studies on the Elasticity of Substitution	
	5.3.4	Limitation of the Earlier Studies	
5.4		Cobb-Douglas Production Function	
	5.4.1	Cobb-Douglas Production Function Results	
5.5		Translog Production Function	
	5 5 1	Returns to Scale in Translog Function	
	5.5.2	Elasticity of Substitution	
	5.5.3	Technical Progress	
5.6		Observations of Cobb-Douglas and Translog Function	
VI		SUMMARY AND CONCLUSIONS	185-199
		BIBLIOGRAPHY	200-206