# CONTENTS

**ACKNOWLEDGEMENTS**

iv-v

**LIST OF ABBREVIATIONS**

i-iii

**INTRODUCTION**

1-14

## CHAPTER I

**ORIGIN AND TECHNOLOGICAL ADVANCES OF COMMUNICATION SATELLITES**

15-59

- A Historical Perspective
- Passive and Active Satellite Systems
- Medium Altitude Satellites
- Geostationary Satellites
- Advent of Direct Broadcast Satellites (DBS)
  A. Point-to-Point Satellite
  B. Distribution Satellite
  C. Direct Broadcast Satellite
- Objectives of DBS
- A Third World Perspective
- Need for DBS Regulations
- Existing Operational Systems
- INTELSAT
- INTERSPUTNIK
- INMARSAT
- EUTELSAT
- ARABSAT
- PALPA

## CHAPTER II

**TOWARDS REGULATING DIRECT BROADCAST SATELLITES: THE ORGANIZATIONAL SET UP**

60-101

- Committee on the Peaceful Uses of Outer Space (COPUOS)
- Structure of COPUOS
CHAPTER III

- An Assessment of COPUOS Work
- International Telecommunication Union (ITU)
- Structure and Work of ITU
- Issues relating to Geostationary Orbit
- United Nations Educational, Scientific and Cultural Organization

Other Specialised UN Agencies

1. World Intellectual Property Organization (WIPO)
2. International Civil Aviation Organization (ICAO)
3. World Meteorological Organization (WMO)
4. Food and Agriculture Organization (FAO)
5. International Maritime Organization (IMO)
6. International Atomic Energy Agency (IAEA)
7. World Bank

Other Inter-Governmental and Non-Governmental Organizations

1. European Space Agency (ESA)
2. European Broadcasting Union (EBU)
3. Committee on Space Research of the International Council of Scientific Unions (COSPAR)
4. International Astronautical Federation (IAF)

CHAPTER III

INTERNATIONAL SPACE LAW AND THE LEGAL PARAMETERS FOR DIRECT BROADCAST SATELLITES

- Evolution of International Space Law
- The Corpus of International Space Law
- Need for the Definition and Delimitation of Outer Space 110
- Definition of Space Law and emerging Areas 117
- Emergence of DBS Issue 121
- The Space Treaty and DBS 123
- The Working Group on Direct Broadcasting Satellites (WGDBS) 125
- Assessment of the Work of the Working Group 127
- ITU as a Law-making Body 139
- Thrust Areas of ITU Regulations 140
- Regulations relating to the Radio Frequency Spectrum 141
- Regulations relating to the Geostationary Orbit 143
- Questions relating to the Problem of Spillover 146
- Regulatory Efforts undertaken within UNESCO 149

CHAPTER IV
STATE SOVEREIGNTY AND DIRECT BROADCAST SATELLITE 153-191
- Genesis of the Concept of Sovereignty 154
- Territorial Sovereignty 155
- Sovereign Equality of States 157
- Sovereignty over the Air Space 159
- Principle of Sovereignty in Outer Space 162
- Outer Space as "Res Communis Omnium" 164
- Principle of Sovereignty and DBS 168
- Non-intervention in Internal Affairs 170
- The Working Group on Direct Broadcast Satellites (WGDBS) 172
- Sovereignty in Cultural Perspective 176
- Sovereignty in Economic Perspective 182