

Contents

<i>Foreword</i>	(v)
<i>Preface</i>	(vii)
<i>Acknowledgements</i>	(xi)
1. Advent of Numerical Weather Prediction	1-28
2. Hierarchy of Atmospheric Models	29-66
3. Numerical Methods	67-124
4. Objective Analysis	125-160
5. Parameterization of Physical Processes	161-188
6. Weather Prediction - Lorenz Chaos Theory – Nonlinear Dynamics, Ensemble Prediction	189-206
7. Current Status of NWP in India	207-230
Appendix A: Mathematical Formulation of NWP	231-238
Appendix B: Sigma Coordinate System	239-246
Appendix C: Finite Difference Formulation of Multi-Level Primitive Equation Model	247-250
References	251-254