



# CONTENTS

## Hydrostatic Airflow over Mountains

RONALD B. SMITH

1. Introduction .....	1
2. Regimes of Flow.....	8
3. Mountain Waves .....	12
4. Wave Breaking and Local Hydraulics .....	16
5. Flow Splitting .....	20
6. Wind Shear .....	25
7. Static Stability Variations .....	30
8. Applications .....	34
9. Unsolved Problems .....	37
References .....	38

## The Forcing and Maintenance of Global Monsoonal Circulations: An Isentropic Analysis

DONALD R. JOHNSON

1. Introduction .....	43
2. Quasi-horizontal Isentropic Mass and Energy Transport .....	49
3. Empirical Evidence for Global Monsoonal Circulations.....	53
4. Theoretical Evidence for Global Monsoonal Circulations .....	104
5. Comparison of Isobaric and Isentropic Results for Global Monsoonal Circulations .....	200
6. Zonally Averaged Circulations .....	237
References .....	304
INDEX .....	317