

CONTENTS

	<u>Page</u>
1 INTRODUCTION	3
2 FACILITIES FOR TRANSIENT MEASUREMENTS	4
3 FACILITIES FOR STEADY-STATE MEASUREMENTS	6
4 TRANSIENT MEASUREMENTS	9
4.1 Thin-wall models	9
4.2 Semi-infinite-wall models	13
4.3 Calibration procedures	16
5 STEADY-STATE MEASUREMENTS	19
5.1 General considerations	19
5.2 Heat-flow meters	21
5.3 Calibration procedures	27
6 AERODYNAMIC EFFECTS OF NON-UNIFORM WALL TEMPERATURE	31
7 CONCLUDING REMARKS	33
References	34
Illustrations	Figures 1-10