# CONTENTS

<table>
<thead>
<tr>
<th>Foreword</th>
<th>vii</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface</td>
<td>ix</td>
</tr>
<tr>
<td>Acknowledgements</td>
<td>xi</td>
</tr>
</tbody>
</table>

## 1 ANATOMY OF THE EAR 1
1.1 External Ear: Pinna and Ear Canal  1
1.2 Middle Ear of the Dog  5
1.3 Middle Ear of the Cat  11
1.4 Inner Ear  15

## 2 DIAGNOSTIC TECHNIQUES 23
2.1 Ear Pinna  23
2.2 External Ear Canal  32
2.3 Middle Ear  35

## 3 ADVANCED DIAGNOSTIC TECHNIQUES 37
3.1 Video Otoscopy  37
3.2 Radiography  38
3.3 CT  43
3.4 MRI  44
3.5 Brainstem Auditory Evoked Response  46
3.6 Auditory Tympanometry  49

## 4 DISEASES OF THE EAR PINNA 51
4.1 Erythematous Diseases  51
4.2 Diseases with Crust and Scale  55
4.3 Papular Diseases  63
4.4 Pustular Diseases  67
4.5 Nodular Diseases  70
4.6 Ulcerative Diseases  72
4.7 Diseases with Alopecia  81

## 5 CONDITIONS OF THE EAR CANAL 87
5.1 Allergy  87
5.2 Endocrine Disease  87
5.3 Ectoparasites  88
5.4 Keratinization Disorders  90
5.5 Autoimmune Disease  90
5.6 Idiopathic Disease  90
5.7 Foreign Bodies  91
5.8 Neoplastic and Hyperplastic Conditions of Ear Canal  93
5.9 Predisposing Factors in Otitis Externa  97
5.10 Perpetuating Factors  100

## 6 CONDITIONS OF THE MIDDLE EAR 107
6.1 Aetiology and Pathogenesis of Acute Otitis Media  107
6.2 Chronic Otitis Media  115
6.3 Investigation of Otitis Media  115

## 7 DISEASES OF THE INNER EAR 125
7.1 Vestibular Apparatus  125
7.2 Cochlea  136

## 8 SURGERY OF THE EAR 145
8.1 Pinna Lacerations  145
8.2 Pinnectomy  146
8.3 Auricular Haematoma Drainage  146
8.4 Lateral Wall Resection  148
8.5 Vertical Ear Canal Resection  151
8.6 Total Ear Canal Ablation with Lateral Bulla Osteotomy  154
8.7 Subtotal Ear Canal Ablation with Lateral Bulla Osteotomy  157
8.8 End-To-End Anastomosis  158
8.9 Ventral Bulla Osteotomy  160
8.10 Laser Ear Surgery  162

Index  167