TABLE OF CONTENTS Bovine Medicine, 3rd Edition

Contributors

Preface

Section I: Modern Cattle Practice

- 1 Sustainability and One Health 3 *Judith L. Capper*
- 2 Modern Cattle Practice: a Blueprint for the Future 11 Jos P. Noordhuizen
- 3 Education and Cattle Practice: 'What Do We Do? What Should We Do?' 26 Peter D. Cockcroft
- 4 Evidence-Based Veterinary Medicine and Clinical Audits in Cattle Practice 41 Peter D. Cockcroft
- 5 Practice-Based Clinical Research 49 *Mark A. Holmes*
- 6 Expert Witness 55 Paul Roger

Section II: Practice Management and Professional Skills

- 7 Practice Management –Developing a Progressive Veterinary Practice 63 Peter Orpin
- 8 Veterinary Leadership and Communication Skills 69 Michelle McArthur and Adele Feakes
- 9 Marketing Promotion and Farmer Education 77 *Peter Orpin*
- 10 Veterinary Equipment in Ambulatory Practice 85 *Karin Mueller*
- 11 The Practice Laboratory 97 Allan Kessell

12 Safety: Handling and Restraint of Cattle 110 *Mandi Carr*

Section III: Clinical Skills

13 Herd Health Investigations in Cattle Practice 117 Cheryl L. Waldner and John R. Campbell

14 Diagnosis and Clinical Reasoning in Cattle Practice 124 Peter D. Cockcroft

15 Special Diagnostic Procedures 133 Phil Scott and Peter D. Cockcroft

16 Bovine Haematology and Biochemistry 146 Allan Kessell

17 Post-Mortem Examination and Sample Taking in Cattle 161 Elizabeth F. McInnes

18 Microbiology for Cattle Practitioners 175 Bryan Markey

19 Epidemiology: the Important Concepts 184 *Michael P. Reichel*

20 Biosecurity 189 Wayne Boardman

21 Applied Clinical Parasitology for Cattle Practitioners 198 *Mike Taylor*

22 Cattle Poisoning: Principles of Toxicological Investigations 211 JoPayne , Chris Livesey and Alan Murphy

23 Antimicrobial Selection in Cattle Practice 225 Peter D. Cockcroft

24 Pain Management in Cattle Practice 238 Peter D. Cockcroft

25 Bull Health and Breeding Soundness 246 Peter Chenoweth

26 Euthanasia of Cattle 262 Karin Mueller

Section IV: Herd Health

27 Important National and International Diseases of Cattle 273 *Michael P Reichel and Charles G B Caraguel*

28 Population Medicine and Herd Health Planning 280 *Nigel B. Cook*

29 Welfare and Cattle Behaviour 291 *Clive Phillips*

30 Rumen Health in the Dairy Cow 297 Dai Grove-White

31 Genetics for the Bovine Practitioner 305 *Nicholas N. Jonsson and Emily K. Piper*

32 Abortion and Perinatal Mortality in Cattle 312 *Richard D. Murray*

Section V: Dairy Cattle Herd Health

33 The Prevalence and Cost of Important Endemic Diseases and Fertility in Dairy Herds in the UK 325

Alastair Macrae and Richard Esslemont

34 Dairy Cow Housing Audit 338 *Chris Watson*

35 Cattle Signs 347 Kiro Petrovski

36 The Farm Audit: Health and Management of the Calf 360 *Katrine Bazeley*

37 Heifer Rearing Weaning to Second Calving: Optimising Health and Productivity 373

Peter D. Cockcroft

38 The Farm Audit: Health and Management of the Transition Cow 381 *lanJ.LeanandPeterJ.DeGaris*

39 The Farm Audit: Clinical Dairy Cow Nutrition 388 *Tom Chamberlain*

40 The Farm Audit: Udder Health Mastitis Milk Quality and Production 396 Andrew Biggs

41 The Farm Audit: Foot Health Lameness and Footcare 406 *Nick Bell*

42 Reproductive Technologies: On-Farm Applications 418 *Tim Parkinson*

43 Optimising Herd Fertility: the Farm Audit 436 *Rob Smith*

44 AHazardsAnalysisCriticalControlPoint Approach to Improving Reproductive Performance in Lactating Dairy Cows 450 *I.J. Lean A.R. Rabiee and N. Moss*

45 Practice-Based Dairy Health Planning and Plans 465 Jonathan M.E. Statham

46 Organic Dairy Farms 476 *Kathryn Ellis*

Section VI: Beef Cattle Herd Health

47 Beef Suckler Cow Diseases: Monitoring and Surveillance 489 *Phil Scott*

48 Beef Suckler Herd Health: Key Intervention Points 493 Phil Scott

49 Auditing Beef Cow Herd Reproduction 501 *George Caldow and Iain Riddell*

50 Farm Audit –Replacement Beef Heifers 506 Robert L. Larson

51 Cattle Housing: Design and Management 517 Jamie Robertson

52 Bovine Respiratory Disease (BRD): Diagnosis Prevention and Control 525 Peter D. Cockcroft

53 Farm Audit of Beef Cattle Nutrition 531 *Colin Morgan*

54 Audit of Semi-Intensive Beef Finishing Systems 537 Peter D. Cockcroft

55 Beef Cattle Feedlots –How to Measure Manage and Monitor 543 *Mandi Carr*

56 Organic Beef Farms 549 Kathryn Ellis

57 Marketing Beef Cattle Practice 555 Brad J. White

Appendix I Vade Mecum of Cattle Conditions 560 Kiro Petrovski

Index 639.