

# TABLE OF CONTENTS

## Handbook of Bird Biology 3rd Edition

Preface ix

Bird Academy Web Resources xiii

1 Why Study Birds? 1

*Irby J. Lovette and John W. Fitzpatrick*

2 Avian Diversity and Classification 7

*Irby J. Lovette*

3 How Birds Evolve 63

*Irby J. Lovette*

4 Feathers and Plumages 101

*Kimberly Bostwick*

5 Avian Flight 149

*Bret W. Tobalske*

6 Avian Anatomy 169

*Howard E. Evans*

7 Bird Physiology 215

*Scott McWilliams, Elizabeth Adkins-Regan, and Carol Vleck*

8 Avian Food and Foraging 265

*Thomas W. Sherry*

9 Avian Mating and Social Behavior 313

*John Alcock*

10 Avian Vocal Behavior 355

*Bruce E. Byers and Donald E. Kroodsma*

11 Breeding Biology of Birds 407

*David W. Winkler*

12 Avian Migration and Dispersal 453

*David W. Winkler, Judy Shamoun-Baranes, and Theunis Piersma*

13 Ecology of Bird Populations 495

*Walter D. Koenig*

14 Bird Communities 537

*Russell S. Greenberg*

15 Bird Conservation 579

*John W. Fitzpatrick and Amanda D. Rodewald*

Glossary 641

Index 657.