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Nota di contenuto	Environmental Enrichment for Captive Animals; Contents; Preface; Acknowledgements; 1 Environmental Enrichment: an Historical Perspective; 1.1 Definitions; 1.2 A Short History of Animal Keeping; 1.3 Two Approaches to Environmental Enrichment; 1.4 Animal Welfare and Environmental Enrichment; 1.5 Developmental Psychology; 1.6 The Animal Rights Movement; 1.7 The Animal Welfare Movement; 1.8 The Five Freedoms: a Central Concept in Animal Welfare; 1.9 Animal Welfare Indicators; 1.10 Conclusion; 2 Why Bother with Environmental Enrichment?; 2.1 Why Use Enrichment?; 2.2 Justifying Enrichment 2.3 The Ethical Imperative for Environmental Enrichment 2.4 Zoos: a Special Case for Enrichment; 2.5 Care-givers and Enrichment; 2.6 Conclusion; 3 Does Environmental Enrichment Work?; 3.1 The Evidence; 3.2 How does Enrichment Improve Animal Welfare?; 4 Proactive v. Reactive use of Environmental Enrichment; 4.1 What Animals Want; 4.2 Prioritising Environmental Enrichment; 4.3 Solving Animal-welfare

Problems using Environmental Enrichment; 4.4 Summary: Treating Welfare Problems; 5 Designing an Enrichment Device; 5.1 Identifying What You Want to Do; 5.2 Importance of Species-specific Behaviour 5.3 Rewards and Schedules of Reward 5.4 Cosmetic Design Considerations; 5.5 Safety Considerations; 5.6 Discussion and Summary of the Product Design Process; 6 The Enrichment Programme; 6.1 Setting Goals; 6.2 The Enrichment Diary; 6.3 The Enrichment Manual; 6.4 Changing Animal Care-giver Attitudes; 6.5 Conclusion; 7 Enrichment for Different Categories of Animals; 7.1 Companion Animals; 7.2 Farm Animals; 7.3 Laboratory Animals; 7.4 Zoo Animals; 7.5 Conclusion; 8 Food and Foraging Enrichment; 8.1 What is Food?; 8.2 How Animals Forage and Feed; 8.3 Feeding in General 8.4 The Sensory Qualities of Food 8.5 Conclusion; 9 Social Environmental Enrichment; 9.1 Social Housing of Asocial Species; 9.2 Group Housing of Social Species; 9.3 Behavioural Development and Socialisation; 9.4 Rehabilitation and Group Formation; 9.5 Managing Social Behaviour; 9.6 Solitary Housing of Social Species; 9.7 The Value of Human-Animal Contact; 9.8 The Value of Contraspesific Contact; 9.9 Limited Physical Contact; 9.10 Visual, Auditory and Olfactory Contact; 9.11 Conclusion; 10 Housing; 10.1 Looking at Species and Housing Levels; 10.2 A Substrate Approach to Housing 10.3 A Bottom-up Approach to Housing 10.4 Barriers: Keeping People Out and Animals In; 10.5 The World Outside the Enclosure; 10.6 Conclusion; 11 Furniture, Toys and other Objects; 11.1 Furniture; 11.2 Furniture Design and Behaviour; 11.3 Toys and Novel Objects; 11.4 Alternatives to Static Homes; 11.5 Conclusion; 12 Designing and Analysing Enrichment Studies; 12.1 Experimental Design; 12.2 Statistical Analysis; 12.3 Example Experimental Design and Associated Statistical Analyses; 12.4 Has Animal Welfare been Improved?; 13 Information Sources about Environmental Enrichment; 13.1 Books 13.2 Pet Books

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## Sommario/riassunto

Environmental enrichment is a simple and effective means of improving animal welfare in any species - companion, farm, laboratory and zoo. For many years, it has been a popular area of research, and has attracted the attention and concerns of animal keepers and carers, animal industry professionals, academics, students and pet owners all over the world. This book is the first to integrate scientific knowledge and principles to show how environmental enrichment can be used on different types of animal. Filling a major gap, it considers the history of animal keeping, legal issues

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