

MODERN PRACTICES IN ANIMAL HUSBANDRY

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Preface

Animal husbandry is undergoing a remarkable transformation as scientific innovations, digital technologies, and sustainable management practices redefine the way livestock are raised and managed. Modern approaches emphasize improved productivity, animal welfare, environmental sustainability, and economic viability while addressing the growing global demand for safe and nutritious animal products. Advances in precision livestock farming, artificial intelligence, genomics, reproductive biotechnology, climate-smart production systems, disease surveillance, and data-driven decision-making have opened new opportunities for efficient and resilient livestock enterprises.

Modern Practices in Animal Husbandry has been prepared to provide students, researchers, academicians, veterinarians, extension professionals, and livestock entrepreneurs with a comprehensive understanding of contemporary developments in the field. The book presents recent advances in breeding, nutrition, health management, housing, welfare, dairy and meat production, poultry, small ruminants, waste management, and digital livestock technologies, supported by practical insights and emerging research.

The editors sincerely appreciate the valuable contributions of all authors, reviewers, and collaborators whose expertise has enriched this volume. It is our hope that this book will serve as a reliable academic resource and practical guide, encouraging innovation, sustainable livestock development, and scientific excellence in animal husbandry. We trust that readers will find the information both informative and valuable for education, research, and field applications.

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Dr. Gurugubelli Poojitha

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