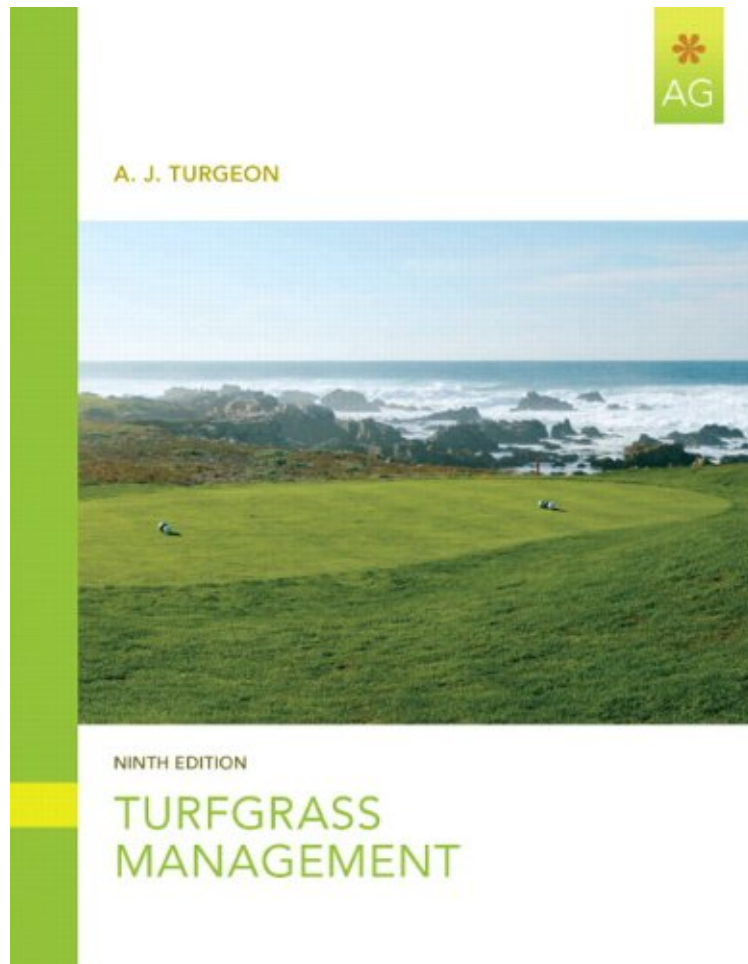


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Turfgrass Management (9th Edition)

A. J. Turgeon

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Highly regarded for its thorough coverage of turfgrass science and technology, Turfgrass Management, Ninth Edition,

addresses the important features of turfgrass systems, interactions, and management. Rich with illustrations, this book unlocks the mysteries of turf and establishes the role of cultural interventions in achieving specific objectives. Among its many updates, this new edition features expanded coverage of history of turf, anatomy and morphology, climatic adaptation, and soil physics.

From the PublisherA principal introductory text for formal and informal instruction in turfgrass management, this generously illustrated book covers important features of turfgrass systems, interactions between system components, and principles of turfgrass management. From the Back CoverKey Benefit: Professionally and generously illustrated, this popular handbook covers important and basic features of turfgrass systems, interactions between system components, and principles of turfgrass management and turfgrass-related enterprises. Key Topics: Keeping scientific jargon to a minimum, Turgeon's book discusses topics clearly and understandably, organizing material in a logical fashion with sequentially dependent chapters that form an evolving foundation for learning successive subjects in a practical order. The Fourth Edition now features a more extensive use of illustrations to enhance readers' understanding of key concepts, processes and relationships, and incorporates new information on endophytes, plant-growth regulators, turfgrasses, pests, pesticides, fertilizers, and equipment. It also more precisely relates turfgrass adaptation and performance to specific climatic conditions in the Trewartha map by supplementing it with new climatic maps where boundaries are drawn using computerized meteorological data acquired from multiple sites around the world. Market: For managers of turf and turf-grass related businesses such as golf course enterprises and professional lawn care services.Excerpt. Reprinted by permission. All rights reserved.This book has been designed as a basic text for beginning students of turfgrass science and management. In covering the important features of turfgrass systems, interactions between and among system components, and principles of turfgrass management, it attempts to unlock some of the mysteries of turf and establish the role of cultural interventions for achieving specific objectives. Illustrations are used generously throughout the text to help students grasp concepts, processes, and relationships of importance in turfgrass systems. Each chapter concludes with a series of questions to test the reader's comprehension of the material. The sixth edition of Turfgrass Management employs the same organization as earlier editions. The first chapter includes an introduction to turf quality, and it characterizes turfgrass management as the means by which turf quality can be sustained. The second chapter focuses on the turfgrass plant and how it grows and develops into a sustainable turfgrass community. An expanded treatment of bioenergetics and a new section on phytohormones has been included in this edition. The third chapter provides detailed information concerning botanic descriptions, environmental adaptations, cultural requirements, and uses of turfgrass species; a climatic classification system helpful in determining where turfgrass species are adapted; and a taxonomic scheme useful in determining where specific turfgrasses fit in relation to other members of the grass family. The fourth chapter deals with the components of the environmentatmospheric, edaphic and bioticin which turfgrasses must grow, compete, and survive. An expanded treatment of water potential and salted soils along with a new section on phytochrome has been included in this edition. Chapters 5 and 6 cover the broad array of primary and supplementary cultural practices, respectively, for sustaining turf at desired levels of quality. An expanded treatment of water quality and plant growth regulators has been included in this edition. The seventh chapter covers important aspects of turfgrass pest management, including those involved in the management of weeds, diseases, nematodes, insects, and large-animal pests. While the role of pesticides is emphasized in this chapter, the entire text is concerned with pest management to the extent that pest problems can be reduced or, in some cases, essentially eliminated by providing conditions that favor healthy turf grass growth. Turfgrass propagation is covered in the eighth chapter. Because many problems encountered in the management of existing turfs are directly attributable to improper establishment, the previous chapters set the stage for an enlightened discussion of propagation and its importance throughout the life of a turf. Finally, the ninth chapter attempts to bring it all together into integrated cultural systems for sustaining specific types of turf. As with earlier editions, the sixth edition contains updated information and specific improvements based, in part, on feedback from many users of the text who were kind enough to share their thoughts and constructive criticisms with the author. I am especially indebted to those individuals who have made contributions to the first and subsequent editions. These include Joe Russo (ZDEX Corporation, Boalsberg, PA) for assisting in the development of the revised climatic map inside the front cover; Floyd Giles for his painstaking drawing and redrawing of the many illustrations in the text; April Pahl, Trudy Zohn, and Jennifer Cooney who also contributed illustrations; Judy Verbeke, who provided some of the leaf cross-section pictures from which illustrations in Figure 3.3 were drawn; and the reviewers of portions of the manuscript, including B.J. Augustin, R. Bacon, J.B. Beard, R. Boufford, P Busey, A.E. Dudeck, R.E. Engel, T.A. Gaskin, V.A. Gibeault, R.L. Goss, G. Hamilton, M. Hendricks, D. Henley, D. Huff, K. Killian, R.B. Malek, C. Mancino, L. Marty, A. McNitt, W.A. Meyer, H.G. Myers, B. Nelson, R. Randell, B. Rehberg, PE. Rieke, D. Rodrigues, M.C. Shurtleff, J.M. Vargas, D.V Waddington, T.L. Watschke, J.R. Watson, John Rogers, and J. Scott Ebdon. Finally, the assistance of my wife, Jean, in editing the manuscript is gratefully acknowledged. A. J. Turgeon