
URBAN SOIL IN LANDSCAPE DESIGN

Phillip J. Craul

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Description :

When The Biggle Garden Book was first published in 1908, most people were in the habit of raising their own food and flowers. Jacob Biggle felt that a gardener's success had to do with willpower and passion rather than acreage. The man, woman or youngster who really wants a garden, will somehow manage to have a good one regardless of soil conditions, bad

Urban Soil In Landscape Design

Kevin J. Gaston



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Urban Soil in Landscape Design Phillip J. Craul, 1992-11-11 Presents essential information on the fundamental properties of soils and how they are affected under urban conditions Coverage includes the physical chemical and biological characteristics of soil how it can be classified inventoried and mapped urban soil properties problems and solutions to many of the more common urban soils methods of ameliorating compaction including other major drainage problems and much more Contains over 150 illustrations *Planting in Urban Soils* James C. Patterson, 1974 *Urban Soils* Phillip J. Craul, 1999-03-25 The soil which is found in large cities offer distinctive challenges to the landscape architect or horticulturist responsible for maintaining these urban plantings Often compacted contaminated or otherwise unsuitable for use in major landscape projects these soils require practical methods which can insure a successful outcome of a landscape project This applications oriented introductory reference addresses numerous topics in the field of urban soil science

Urban Soils Rattan Lal, B. A. Stewart, 2017-10-18 Globally 30% of the world population lived in urban areas in 1950 54% in 2016 and 66% projected by 2050 The most urbanized regions include North America Latin America and Europe Urban encroachment depletes soil carbon and the aboveground biomass carbon pools enhancing the flux of carbon from soil and vegetation into the atmosphere Thus urbanization has exacerbated ecological and environmental problems Urban soils are composed of geological material that has been drastically disturbed by anthropogenic activities and compromised their role in the production of food aesthetics of residential areas and pollutant dynamics Properties of urban soils are normally not favorable to plant growth the soils are contaminated by heavy metals and are compacted and sealed Therefore the quality of urban soils must be restored to make use of this valuable resource for delivery of essential ecosystem services e.g. food water and air quality carbon sequestration temperature moderation biodiversity Part of the Advances in Soil Sciences Series *Urban Soils* explains properties of urban soils assesses the effects of urbanization on the cycling of carbon nitrogen and water and the impacts of management of urban soils soil restoration urban agriculture and food security evaluates ecosystem services provisioned by urban soils and describes synthetic and artificial soils **Trees in the Urban Landscape** Peter J.

Trowbridge, Nina L. Bassuk, 2004-02-09 This hands on guidebook provides practical applied information on design considerations site planning and understanding plant selection installation and maintenance of trees in challenging urban environments Soils in Urban Ecosystem Amitava Rakshit, Subhadip Ghosh, Viacheslav Vasenev, H. Pathak, Vishnu D. Rajput, 2022-04-13 This book is a compilation of latest work in the field of urban soil management It explores the global status of urban soils and puts forwards methods for sustainable utilization of urban soils and green spaces Urban soil study is a new frontier of soil science Urban soils research is challenging due to complexity of classification spatial temporal variability exposure to pollution and the predominant effect of the anthropogenic factor on soil formation Management of urban soils and green spaces is an important aspect for developing sustainable spaces This is a comprehensive collection of

information for the students researchers landscape architects understanding and maximizing the benefits of soils in urban ecosystems

Soils for Landscape Development Simon Leake, Elke Haeger, 2024-12-02 This second edition of the award winning Soils for Landscape Development provides a globally applicable method for landscape architects and designers specification writers landscape contractors nursery growers turf specialists and soil supply companies to properly specify landscape soils using objective and measurable criteria It uses systematic clear and practical templates The book links landscape design processes with sound modern soil science practices to promote better quality project outcomes by ensuring that the basis of the landscape the soil is suitable for the intended purpose The authors emphasise environmental impacts through site soil reuse promoting appropriate minimal soil intervention and using recycled products with example compliance specifications Key features Provides 14 updated performance based soil and compliance specifications including on ultra lightweight green roof soil high fertility display and vegetable production topsoil and biofiltration soil Includes new sections on low budget landscapes small projects and soil fundamentals for landscape architects and designers The authors were awarded the 2015 Australian Institute of Horticulture AIH Literature Award and the 2014 Australian Institute of Landscape Architecture AILA NSW Research and Development Award for the first edition of this book

Handbook of Urban and Community Forestry in the Northeast John E. Kuser, 2013-11-11 With the emergence of urban and community forestry as the fastest growing part of our profession in the last 15 years the need for a book such as this inevitably developed The Society of American Foresters urban forestry working group counts 32 or more universities now offering courses in this subject and the number is growing For the last several years I have coordinated a continuing education urban forestry course at Rutgers for nonmatriculated students Registrants have included arborists shade tree commissioners landscape architects city foresters environmental commissioners park superintendents and others whose jobs involve care and management of trees The course was started by Bob Tate in 1980 around a core of managerial subjects such as inventories budgets and public relations After Bob left in 1984 to join Asplundh and later to start his own prosperous business in California the course languished after it exhausted the local market for those subjects

Urban Landscape Ecology Robert A. Francis, James D.A. Millington, Michael A. Chadwick, 2016-04-14 The growth of cities poses ever increasing challenges for the natural environment on which they impact and depend not only within their boundaries but also in surrounding peri urban areas Landscape ecology the study of interactions across space and time between the structure and function of physical biological and cultural components of landscapes has a pivotal role to play in identifying sustainable solutions This book brings together examples of research at the cutting edge of urban landscape ecology across multiple contexts that investigate the state maintenance and restoration of healthy and functional natural environments across urban and peri urban landscapes An explicit focus is on urban landscapes in contrast to other books which have considered urban ecosystems and ecology without specific focus on spatial connections It integrates research and perspectives from across

academia public and private practitioners of urban conservation planning and design It provides a much needed summary of current thinking on how urban landscapes can provide the foundation of sustained economic growth prospering communities and personal well being

Ecology, Planning, and Management of Urban Forests Margaret M. Carreiro, Yong-Chang Song, Jianguo Wu, 2007-10-31 It has been increasingly recognized that trees and vegetation in urban areas provide a number of ecological services beyond beautifying cities The purpose of urban forestry is to use trees and natural habitat patches to ameliorate negative environmental impacts of cities and to contribute to the creation of more livable ecological sustainable cities Ecology Planning and Management of Urban Forests takes an international approach to sharing knowledge about the management of urban forests that has been learned through studies in many different regions This allows the reader to evaluate methods and management that are appropriate for particular geographic environmental and socio political contexts Urban forests are also approached on regional and landscape scales to encompass more natural environments in and around cities rather than within arbitrary municipal boundaries

Nature, Place & People: Forging Connections Through Neighbourhood Landscape Design Puay-yok Tan, Kuei-hsien Liao, Yun Hye Hwang, Vincent Chua, 2018-04-23

Neighbourhood landscapes are the quintessential forms of urban landscapes in most cities worldwide They are pervasive and hence experienced by the large majority of urban dwellers in their everyday life More than parks nature reserves or nature areas which are visited as destinations neighbourhood landscapes provide the most immediate frequent and convenient form of nature experienced by urban dwellers on a daily basis They are also valuable as social spaces to bring residents together foster social ties and strengthen communities Despite their importance surprisingly little has been written to guide the planning and design of neighbourhood landscapes This book is written for a specific purpose to illustrate how the design of neighbourhood landscapes helps to deliver more benefits for urban dwellers and at the same time protect ecosystems that facilitate human well being This is in turn important as the synergistic relationships between human well being quality of biophysical urban environment and health of human environment interactions fundamentally underpin urban sustainability The authors emphasize the role neighbourhood landscapes play in forging connections between people and nature people and people and people and place Most of all the book highlights the role of focusing on people in this endeavour as it is only when landscapes are appropriately designed and when people recognize these benefits that they become valued and protected as a community resource This book is organized into two parts Part 1 focuses on the conceptual foundations that underpin the neighbourhood landscape design guidelines being developed In this section the authors describe the key concepts relating functions of neighbourhood landscapes to the key urban development goals of sustainability liveability and reliance how they can be represented in a framework and how a synthesis of current knowledge of cities as socio ecological systems helps to identify principles that can guide the designing of neighbourhood landscapes Part 2 is more application focused and is centred on neighbourhood landscape design guidelines inspired by the concept of ecosystem services The

guidelines consist of design approaches practical strategies design targets and performance monitoring indicators for tracking the performance of neighbourhood landscapes The book is written for readers in academia and design practice and anyone who has a role in shaping neighbourhood landscapes for the benefit of urban dwellers **Contaminated Urban Soils** Helmut Meuser, 2010-07-23 With more than 50% of the world's population already living in towns and cities migration from rural areas continuing at an alarming rate in developing countries and suburbanisation using more and more land in developed countries the urban environment has become supremely important with regard to human health and wellbeing For centuries urbanisation has caused relatively low level soil contamination mainly by various wastes However from the time of the Industrial Revolution onwards both the scale of urban development and the degree of soil contamination rapidly increased and involved an ever widening spectrum of contaminants With constraints on the supply of land for new urban development in many countries it is becoming increasingly necessary to re-use previously developed brownfield sites and to deal with their accompanying suites of contaminants It is therefore essential to fully understand the diversity and properties of urban soils to assess the possible risks from the contaminants they contain and devise ways of cleaning up sites and/or minimizing hazards The author Helmut Meuser is Professor of Soil Protection and Soil Clean up at the University of Applied Sciences Osnabrück and is one of Europe's foremost experts on contamination from technogenic materials in urban soils He has many years experience of research in Berlin Essen Osnabrück other regions of Germany and several other countries

Urban Geoscience G. McCall, 1996-07-31 This volume looks at the increasing demand for geoscientific input to planning urban land use rectifying problems of decay and poor prior procedures rehabilitating land after the closure of extractive and other industries designing new constructions and environmental assessment **Landscape Architectural Graphic**

Standards Leonard J. Hopper, 2006-10-13 Landscape Architectural Graphic Standards is an entirely new definitive reference work for everyone involved with landscape architecture design and construction Based on the 70 year success of Architectural Graphic Standards this new book is destined to become the bible for the landscape field Edited by an educator and former president of the American Society of Landscape Architects it provides immediate access to rules of thumb and standards used throughout the planning design construction and management of landscapes View sample pages from

Landscape Architectural Graphic Standards Plant User Handbook James Hitchmough, Ken Fieldhouse, 2008-04-15 Professional landscapers and all those involved in creating green spaces have long been in need of a book that is a guide to plant specification but also makes sense of plants and their cultivation Plant User Handbook is for practitioners who are professionally engaged in the use of plants in public commercial and institutional landscapes Planting schemes are undertaken on the basis of a binding contract generally between the client who owns or leases the landscape and the implementer the landscape contractor with the designer acting both as specifier and contract administrator Within this contractual relationship planting schemes must be implemented to an agreed timetable To manage this procedure efficiently

landscape designers and managers need quick access to the factual and scientific background for practical planting design and its implementation through specification writing and contracts The book covers over 20 well defined topics and is written by leading experts in the industry It is arranged into five sections Preliminaries to plant use and the landscape Managing plant growth on landscape sites Establishment and management of trees Establishment and management of smaller woody plants Establishment and management of herbaceous plants Carefully illustrated with diagrams black and white photographs and colour plates this handbook provides a unique resource for professionals wanting to improve their specification skills as well as to explore creative approaches to design and practical implementation **Routledge Handbook of Urban**

Forestry Francesco Ferrini, Cecil C. Konijnendijk van den Bosch, Alessio Fini, 2017-03-31 More than half the world's population now lives in cities Creating sustainable healthy and aesthetic urban environments is therefore a major policy goal and research agenda This comprehensive handbook provides a global overview of the state of the art and science of urban forestry It describes the multiple roles and benefits of urban green areas in general and the specific role of trees including for issues such as air quality human well being and stormwater management It reviews the various stresses experienced by trees in cities and tolerance mechanisms as well as cultural techniques for either pre conditioning or alleviating stress after planting It sets out sound planning design species selection establishment and management of urban trees It shows that close interactions with the local urban communities who benefit from trees are key to success By drawing upon international state of art knowledge on arboriculture and urban forestry the book provides a definitive overview of the field and is an essential reference text for students researchers and practitioners Urban Ecosystem Ecology J.

Aitkenhead-Peterson, 2020-01-22 If more than half of the Earth's people live in cities and the amount of paved surfaces in the United States is equivalent to the area of Ohio shouldn't our sciences thrive in the city Urban Ecosystem Ecology takes on the important task of reconciling environmental sciences with the world's growing urbanization From wildlife to water from urban agriculture to low impact development we need a better understanding of the urban ecosystem Urban Ecology

Kevin J. Gaston, 2010-09-16 An overview of our current understanding of how people influence and are influenced by the green component of urban environments **Soils and Landscape Restoration** John A. Stanturf, Mac A.

Callahan, 2020-10-24 Soils and Landscape Restoration provides a multidisciplinary synthesis on the sustainable management and restoration of soils in various landscapes The book presents applicable knowledge of above and below ground interactions and biome specific realizations along with in depth investigations of particular soil degradation pathways It focuses on severely degraded soils e.g. eroded salinized mined as well as the restoration of wetlands grasslands and forests The book addresses the need to bring together current perspectives on land degradation and restoration in soil science and restoration ecology to better incorporate soil based information when restoration plans are formulated Includes a chapter on climate change and novel ecosystems thus collating the perspective of soil scientists and ecologists on this consequential and

controversial topic Connects science to international policy and practice Includes summaries at the end of each chapter to elucidate principles and key points *Green Technologies and Infrastructure to Enhance Urban Ecosystem Services* Viacheslav Vasenev, Elvira Dovletyarova, Zhongqi Cheng, Riccardo Valentini, Carlo Calfapietra, 2019-04-17 These proceedings of the Smart and Sustainable Cities Conference SSC in Moscow from May 23 to 26 2018 addresses important questions regarding the global trend of urbanization What are the environmental consequences of megacities expansion What smart solutions can make life in cities safe comfortable and environmentally friendly It is projected that 70% of the global population will live in cities by 2050 and as such the book describes how this rapid urbanization will alter the face of the world Focusing on solutions for the environmental problems of modern megapolises it discusses advanced approaches and smart technologies to monitor model and assess the environmental consequences and risks The contributors present examples of successful sustainable urban development including management and design of green infrastructure waste management run off purification and remediation of urban soils The SSC conference and its proceedings offer a valuable contribution to sustainable urban development and are of interest to the scientific and research community municipal services environmental protection agencies landscape architects civil engineers policy makers and other stakeholders in urban management and greenery

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