

*Third Edition*

# THE SCIENCE OF WATER

Concepts and Applications

Frank R. Spellman



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# Water Technology Third Edition Crc Press

**Frank R. Spellman**



## **Water Technology Third Edition Crc Press :**

**Fundamentals of Environmental Chemistry, Third Edition** Stanley E. Manahan, 2011-03-05 Written by an expert using the same approach that made the previous two editions so successful *Fundamentals of Environmental Chemistry Third Edition* expands the scope of book to include the strongly emerging areas broadly described as sustainability science and technology including green chemistry and industrial ecology The new edition includes Increased emphasis on the applied aspects of environmental chemistry Hot topics such as global warming and biomass energy Integration of green chemistry and sustainability concepts throughout the text More and updated questions and answers including some that require Internet research Lecturers Pack on CD ROM with solutions manual PowerPoint presentations and chapter figures available upon qualifying course adoptions The book provides a basic course in chemical science including the fundamentals of organic chemistry and biochemistry The author uses real life examples from environmental chemistry green chemistry and related areas while maintaining brevity and simplicity in his explanation of concepts Building on this foundation the book covers environmental chemistry broadly defined to include sustainability aspects green chemistry industrial ecology and related areas These chapters are organized around the five environmental spheres the hydrosphere atmosphere geosphere biosphere and the anthrosphere The last two chapters discuss analytical chemistry and its relevance to environmental chemistry Manahan s clear concise and readable style makes the information accessible regardless of the readers level of chemistry knowledge He demystifies the material for those who need the basics of chemical science for their trade profession or study curriculum as well as for readers who want to have an understanding of the fundamentals of sustainable chemistry in its crucial role in maintaining a livable planet

*Water Technology* N. F. Gray, 2010-08-14 Water science and technology is one of the world s largest and most interdisciplinary industries employing chemists microbiologists botanists zoologists as well as engineers computer specialists and a range of different management professionals This accessible student textbook covers the key concepts of water science and technology by explaining the fundamentals of water quality and regulation policy and management hydrobiology water treatment and drinking water supply and wastewater treatment The Water Framework Directive is the unifying theme for this new edition Deals with water quality assessment management and treatment Includes a new chapter on sustainability within water technology This textbook is intended for Masters students and some undergrads on environmental science engineering courses construction courses and students registered for the CIWEM Diploma Chartered Institute of Water and Environmental Management It will also be useful for professionals working in the water industry water service companies environmental regulators and consultants Author N F Gray Professor Department of Civil Structural and Environmental Engineering Trinity College Dublin Ireland Co Published with CRC Press

**Handbook of Water and Wastewater Treatment Plant Operations, Third Edition** Frank R. Spellman, 2013-10-21 *Handbook of Water and Wastewater Treatment Plant Operations* the first thorough resource manual developed exclusively for water and

wastewater plant operators has been updated and expanded An industry standard now in its third edition this book addresses management issues and security needs contains coverage on pharmaceuticals and personal care products PPCPs and includes regulatory changes The author explains the material in layman s terms providing real world operating scenarios with problem solving practice sets for each scenario This provides readers with the ability to incorporate math with both theory and practical application The book contains additional emphasis on operator safety new chapters on energy conservation and sustainability and basic science for operators What s New in the Third Edition Prepares operators for licensure exams Provides additional math problems and solutions to better prepare users for certification exams Updates all chapters to reflect the developments in the field Enables users to properly operate water and wastewater plants and suggests troubleshooting procedures for returning a plant to optimum operation levels A complete compilation of water science treatment information process control procedures problem solving techniques safety and health information and administrative and technological trends this text serves as a resource for professionals working in water and wastewater operations and operators preparing for wastewater licensure exams It can also be used as a supplemental textbook for undergraduate and graduate students studying environmental science water science and environmental engineering

Water Technology, Third Edition Nick Gray, 2010-07-26 Water has become one of the most important issues of our time Career prospects for those working in water and wastewater engineering are expanding with over 90 000 workers in the water environment industry and technological developments are rapidly advancing our understanding in this area This accessible student textbook introduces the reader to the key concepts of water technology by explaining the fundamentals of hydrobiology aquatic ecosystems water treatment and supply and wastewater treatment The Water Framework Directive is the driving force in European water management and protection and Nick Gray uses this as the unifying theme in this new edition This text provides a complete introduction to all aspects of managing the hydrological cycle and is ideal for those interested in a career in the water industry For Masters students in environmental science engineering and construction courses and those taking the CIWEM diploma Water Technology is an essential resource they will find useful in their professional careers

Water and Wastewater Calculations Manual, Third Edition Shun Dar Lin, 2014-05-22 Step by step water and wastewater calculations updated for the latest methods and regulations Water and Wastewater Calculations Manual Third Edition provides basic principles best practices and detailed calculations for surface water groundwater drinking water treatment and wastewater engineering The solutions presented are based on practical field data and the most current federal and state rules and regulations Designed for quick access to essential data the book contains more than 100 detailed illustrations and provides both SI and U S customary units This up to date environmental reference contains new and revised information on U S Environmental Protection Agency maximum contaminant levels for public water systems and protection from waterborne organisms Membrane filtration processes Clarification systems Ultraviolet disinfection Ozonation

SNAD simultaneous partial nitrification ANAMMOX anaerobic ammonium oxidation and denitrification Membrane bioreactors Lake evaporation mathematical models Comprehensive coverage includes Stream and river sanitation Lake and reservoir management Groundwater regulations and protection Fundamental and treatment plant hydraulics Public water supply Wastewater engineering Macro invertebrate tolerance list Well function for confined aquifers Solubility product constants for solution at or near room temperature Freundlich adsorption isotherm constants for toxic organic compounds Factors for conversion

*Packaging for Nonthermal Processing of Food* Melvin A. Pascall, Jung H. Han, 2018-02-19 A comprehensive review of the many new developments in the growing food processing and packaging field Revised and updated for the first time in a decade this book discusses packaging implications for recent nonthermal processing technologies and mild food preservation such as high pressure processing irradiation pulsed electric fields microwave sterilization and other hurdle technologies It reviews typical nonthermal processes the characteristics of food products after nonthermal treatments and packaging parameters to preserve the quality and enhance the safety of the products In addition the critical role played by packaging materials during the development of a new nonthermal processed product and how the package is used to make the product attractive to consumers is discussed *Packaging for Nonthermal Processing of Food* Second Edition provides up to date assessments of consumer attitudes to nonthermal processes and novel packaging both in the U S and Europe It offers a brand new chapter covering smart packaging including thermal microbial chemical and light sensing biosensors radio frequency identification systems and self heating and cooling packaging There is also a new chapter providing an overview of packaging laws and regulations in the United States and Europe Covers the packaging types required for all major nonthermal technologies including high pressure processing pulsed electric field irradiation ohmic heating and others Features a brand new chapter on smart packaging including biosensors thermal microbial chemical and light sensing radio frequency identification systems and self heating and cooling packaging Additional chapters look at the current regulatory scene in the U S and Europe as well as consumer attitudes to these novel technologies Editors and contributors bring a valuable mix of industry and research experience *Packaging for Nonthermal Processing of Food* Second Edition offers many benefits to the food industry by providing practical information on the relationship between new processes and packaging materials to academia as a source of fundamental knowledge about packaging science and to regulatory agencies as an avenue for acquiring a deeper understanding of the packaging requirements for new processes

*Handbook of Food Powders* Bhesh Bhandari, Nidhi Bansal, Min Zhang, Pierre Schuck, 2013-08-31 Many food ingredients are supplied in powdered form as reducing water content increases shelf life and aids ease of storage handling and transport Powder technology is therefore of great importance to the food industry The *Handbook of food powders* explores a variety of processes that are involved in the production of food powders the further processing of these powders and their functional properties Part one introduces processing and handling technologies for food powders and includes chapters on spray freeze

and drum drying powder mixing in the production of food powders and safety issues around food powder production processes Part two focusses on powder properties including surface composition rehydration and techniques to analyse the particle size of food powders Finally part three highlights speciality food powders and includes chapters on dairy powders fruit and vegetable powders and coating foods with powders The Handbook of food powders is a standard reference for professionals in the food powder production and handling industries development and quality control professionals in the food industry using powders in foods and researchers scientists and academics interested in the field Explores the processing and handling technologies in the production of food powders Examines powder properties including surface composition shelf life and techniques used to examine particle size Focusses on speciality powders such as dairy infant formulas powdered egg fruit and vegetable and culinary and speciality products

**Food Science and Technology** Oluwatosin Ademola Ijabadeniyi, 2020-12-07 Food Science and Technology Trends and Future Prospects presents different aspects of food science i e food microbiology food chemistry nutrition process engineering that should be applied for selection preservation processing packaging and distribution of quality food The authors focus on the fundamental aspects of food and also highlight emerging technology and innovations that are changing the food industry The chapters are written by leading researchers lecturers and experts in food chemistry food microbiology biotechnology nutrition and management This book is valuable for researchers and students in food science and technology and it is also useful for food industry professionals food entrepreneurs and farmers

**Handbook of Vegetables and Vegetable Processing** Nirmal K. Sinha, Y. H. Hui, E. Özgül Evranuz, Muhammad Siddiq, Jasim Ahmed, 2010-11-19 Vegetables are an important article of commerce both in developed and developing economies Many studies point to importance of vegetables in our diet Handbook of Vegetables and Vegetable Processing serves as a reference handbook on vegetables and vegetable processing containing the latest developments and advances in this fast growing field The book can be considered as a companion to Y H Hui's popular Handbook of Fruits and Fruit Processing 2006 Handbook of Vegetables and Vegetable Processing is contemporary in scope with in depth coverage of new interdisciplinary developments and practices in the field of vegetables emphasizing processing preservation packaging and nutrition and food safety Coverage includes chapters on the biology horticultural biochemistry microbiology nutrient and bioactive properties of vegetables and their significant commercialization by the food industry worldwide Full chapters are devoted to major vegetables describing aspects ranging from chemistry to processing and preservation World renowned editors and authors have contributed to this essential handbook on vegetables and their production technology storage processing packaging safety and commercial product development Special Features Coverage includes biology and classification physiology biochemistry flavor and sensory properties microbial safety and HACCP principles nutrient and bioactive properties In depth descriptions of key processes including minimal processing freezing pasteurization and aseptic processing fermentation drying packaging and application of new technologies Entire chapters devoted to important aspects

of over 20 major commercial vegetables including avocado table olives and textured vegetable proteins Unparalleled expertise on important topics from more than 50 respected authors      **The Chemistry of Food Additives and Preservatives** Titus A. M. Msagati,2012-12-17 Chemistry of Food Additives and Preservatives Food additives are chemicals or ingredients that are added to food during processing to improve quality flavour appearance or nutritional value or to prevent chemical or microbial spoilage The most common types of additives are preservatives colourants sweeteners flavourings emulsifiers thickeners and stabilisers Adding new ingredients to a food has an effect upon its chemistry and structure as well as its sensory characteristics Additives are usually characterised by where they come from for example whether they are natural or synthetic by their purpose such as improving shelf life and the risks associated with them such as their toxicity and any side effects upon the consumer Although in recent years the trend in consumer marketing has been to trumpet a lack of additives and preservatives with artificial ingredients commonly seen in a negative light there nevertheless remains a wide variety of additives and preservatives that are crucial both to producers and consumers without which the quality of the food would suffer Chemistry of Food Additives and Preservatives is an up to date reference guide to the wide range of different types of additives used in the food industry today It looks at the processes involved in adding preservatives and additives to foods and the mechanisms and methods used The book provides full details about the chemistry of each major class of food additive showing the reader not just what kind of additives are used and what their functions are but also how they work and how they may have multiple functionalities This book also covers numerous new additives currently being introduced how the quality of these is ascertained and how consumer safety is ensured Chemistry of Food Additives and Preservatives is an ideal reference for food chemists food safety specialists and agencies food processors who are working with additives and preservatives and food regulators and policy makers Written in an accessible style and covering a broad range of food additives and preservatives the book offers an in depth analysis of the chemical interactions of food additives and preservatives with the natural composition of the foods to which they are added It is a unique and ground breaking treatment of a topic vital to both the food industry and the researcher      *Desalination Concentrate Management* Bradley Ladewig,Benjamin Asquith,2011-10-25 This book examines five methods used for concentrate management namely disposal to surface water disposal to sewerage deep well injection land applications and evaporation ponds In particular the book focuses on the design siting cost and environmental impacts of these methods While these methods are widely practiced in a variety of settings already there are many limitations that restrict the use of certain disposal options in particular locations      Materials Science and Engineering William D. Callister,David G. Rethwisch,2019-01-03      Fundamentals and Applications of Microfluidics, Third Edition Nam-Trung Nguyen,Steven T. Wereley,Seyed Ali Mousavi Shaegh,2019-01-31 Now in its Third Edition the Artech House bestseller Fundamentals and Applications of Microfluidics provides engineers and students with the most complete and current coverage of this cutting edge field This revised and expanded edition provides

updated discussions throughout and features critical new material on microfluidic power sources sensors cell separation organ on chip and drug delivery systems 3D culture devices droplet based chemical synthesis paper based microfluidics for point of care ion concentration polarization micro optofluidics and micro magnetofluidics The book shows how to take advantage of the performance benefits of microfluidics and serves as an instant reference for state of the art microfluidics technology and applications Readers find discussions on a wide range of applications including fluid control devices gas and fluid measurement devices medical testing equipment and implantable drug pumps Professionals get practical guidance in choosing the best fabrication and enabling technology for a specific microfluidic application and learn how to design a microfluidic device Moreover engineers get simple calculations ready to use data tables and rules of thumb that help them make design decisions and determine device characteristics quickly

**Urban Water Sustainability** Sarah Bell, 2017-12-22

The provision of a safe and reliable water supply is a major challenge for the world's growing urban populations This book investigates the implications of different developments in water technology and infrastructure for urban sustainability and the relationship between cities and nature The book begins by outlining five frameworks for analysing water technologies and systems sustainable development ecological modernisation socio technical systems political ecology and radical ecology It then analyses in detail what the sustainability implications are of different technical developments in water systems specifically demand management sanitation urban drainage water reuse and desalination The main purpose of the book is to draw out the social political and ethical implications of technical changes that are occurring in urban water systems around the world with positive and negative impacts on sustainability Distinguished from existing social science analysis due to its attention to the engineering details of the technology this book will be of use to a wide audience including students on water management courses engineering students and researchers urban geographers and planners interested in sustainability infrastructure and critical ecology

**Modern Chemical Technology and Emission Control** M.B. Hocking, 2012-12-06

This text of applied chemistry considers the interface between chemistry and chemical engineering using examples of some of the important process in dustries Integrated with this is detailed consideration of measures which may be taken for avoidance or control of potential emissions This new emphasis in applied chemistry has been developed through eight years of experience gained from working in industry in research development and environment al control fields plus twelve years of teaching here using this approach It is aimed primarily towards science and engineering students as well as to environmentalists and practising professionals with responsibilities or an interest in this interface By providing the appropriate process information back to back with emis sions and control data the potential for process fine tuning is improved for both raw material efficiency and emission control objectives This approach also emphasizes integral process changes rather than add on units for emis sion control Add on units have their place when rapid action on an urgent emission problem is required or when control simply is not feasible by pro cess integral changes alone Obviously fundamental process changes for

emission containment are best conceived at the design stage. However, at whatever stage process modifications are installed, this approach to control should appeal to the industrialist in particular in that something more substantial than decreased emissions may be gained.

**Environmental Forensics** Robert D Morrison, Gwen O'Sullivan, 2014-07-01 This publication includes peer reviewed manuscripts from the 2013 International Network of Environmental Forensics (INEF) Conference held at Pennsylvania State College, USA. INEF is an organization founded by environmental forensic scientists for the express purpose of sharing and disseminating environmental forensic information to the international scientific community. This professionally edited book is the third of a series of INEF conference publications chronicling the current state of the art in environmental forensics. Since the first INEF conference held in Qingdao, China, in 2008, significant advances in the state of the art in environmental forensics have occurred, especially in the fields of compound specific isotope analysis (CSIA), biological and petroleum hydrocarbon pattern recognition, and the use of advanced multivariate techniques for interpreting environmental forensics data. Of note in these proceedings is the application of environmental forensic techniques to examine contaminant issues associated with hydrofracking, which has received considerable international attention in the past several years. Providing an update on the advancement and refinement of environmental forensic techniques, this book is aimed at scientists, regulators, academics, and consultants from throughout the world.

**Food Biochemistry and Food Processing** Y. H. Hui, Wai-Kit Nip, Leo M. L. Nollet, Gopinadhan Paliyath, Benjamin K. Simpson, 2008-02-15 The biochemistry of food is the foundation on which the research and development advances in food biotechnology are built. In *Food Biochemistry and Food Processing*, lead editor Y. H. Hui has assembled over fifty acclaimed academicians and industry professionals to create this indispensable reference and text on food biochemistry and the ever-increasing development in the biotechnology of food processing. While biochemistry may be covered in a chapter or two in standard reference books on the chemistry, enzymes, or fermentation of food, and may be addressed in greater depth by commodity-specific texts (e.g., the biotechnology of meat, seafood, or cereal), books on the general coverage of food biochemistry are not so common. *Food Biochemistry and Food Processing* effectively fills this void. Beginning with sections on the essential principles of food biochemistry, enzymology, and food processing, the book then takes the reader on commodity-by-commodity discussions of biochemistry of raw materials and product processing. Later sections address the biochemistry and processing aspects of food fermentation, microbiology, and food safety. As an invaluable reference tool or as a state-of-the-industry text, *Food Biochemistry and Food Processing* fully develops and explains the biochemical aspects of food processing for scientist and student alike.

**Handbook of Environmental Degradation of Materials** Myer Kutz, 2018-06-15 The *Handbook of Environmental Degradation of Materials*, Third Edition, explains how to measure, analyze, and control environmental degradation for a wide range of industrial materials, including metals, polymers, ceramics, concrete, wood, and textiles, exposed to environmental factors such as weather, seawater, and fire. This updated edition divides the material into four new sections: Analysis and Testing, Types of Degradation,

Protective Measures and Surface Engineering then concluding with Case Studies New chapters include topics on Hydrogen Permeation and Hydrogen Induced Cracking Weathering of Plastics the Environmental Degradation of Ceramics and Advanced Materials Antimicrobial Layers Coatings and the Corrosion of Pipes in Drinking Water Systems Expert contributors to this book provide a wealth of insider knowledge and engineering expertise that complements their explanations and advice Case Studies from areas such as pipelines tankers packaging and chemical processing equipment ensure that the reader understands the practical measures that can be put in place to save money lives and the environment Introduces the reader to the effects of environmental degradation on a wide range of materials including metals plastics concrete wood and textiles Describes the kind of degradation that effects each material and how best to protect it Includes case studies that show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects *Bioinspired Water Harvesting, Purification, and Oil-Water Separation* Bharat Bhushan, 2020-03-24

This book presents an overview of arid desert conditions and natural mechanisms for water harvesting from fog and condensation providing data on various bioinspired surfaces for water collection It discusses consumer to military and emergency applications It presents various designs for water harvesting towers and projections for water collection and describes innovative approaches to bioinspired water desalination water purification and oil water separation Fresh water sustains human life and is vital for health However water scarcity affects more than 40% of the global population and is projected to rise especially in some of the world's most impoverished countries Additionally water contamination is one of the most critical environmental and natural resource concerns of the 21st century This book addresses these topics with a presentation of the development of sustainable and environmentally friendly bioinspired surfaces for water harvesting from fog and condensation as well as bioinspired oil water separation techniques for removing oil contaminants from oil water mixtures and oil water emulsions Intended for novices as well as experts in the field the book offers actionable insight for practitioners solution seekers and the generally curious alike It serves as an excellent accompanying text for one semester courses in biomimetics water supply and management or environmental engineering **Pollutants, Human Health and the Environment** Jane A. Plant, Nick Voulvoulis, K. Vala Ragnarsdottir, 2012-03-05

**Pollutants, Human Health and the Environment** is a comprehensive up to date overview of environmental pollutants that are of current concern to human health Clearly structured throughout the main body of the book is divided by pollutant type with a chapter devoted to each group of pollutants Each chapter follows a similar format to facilitate comparison and discussion For each pollutant the authors describe the sources pathways environmental fate and sinks as well as known toxicological effects Importantly the second chapter on heavy metals and other inorganic substances deals with trace element deficiencies which can have serious problems for human health Some rocks and soils are naturally low in some trace elements and intensive agriculture over the past half century has effectively mined many trace elements reducing their levels in soils and crops The final chapter is a

discussion about the various risk assessment frameworks and regulations covering the main pollutants Comprehensive up to date coverage of environmental pollutants of concern to human health Clearly divided into pollutant type with each chapter devoted to a different pollutant group Clearly structured throughout with the same format for each chapter to help facilitate comparison and discussion and enable readers to prioritise chemicals of concern Description of the sources pathways environmental fate and known toxicological effect Includes contributions from leading researchers and edited by a team of experts in the field

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Water Technology Third Edition Crc Press**

In some sort of inundated with displays and the cacophony of immediate conversation, the profound power and emotional resonance of verbal artistry often diminish into obscurity, eclipsed by the regular assault of noise and distractions. Yet, set within the lyrical pages of **Water Technology Third Edition Crc Press**, a interesting perform of fictional beauty that pulses with fresh feelings, lies an unique trip waiting to be embarked upon. Penned by a virtuoso wordsmith, this exciting opus books visitors on an emotional odyssey, softly revealing the latent possible and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse of the evocative examination, we shall embark upon an introspective exploration of the book is main themes, dissect their captivating writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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### **Table of Contents Water Technology Third Edition Crc Press**

1. Understanding the eBook Water Technology Third Edition Crc Press
  - The Rise of Digital Reading Water Technology Third Edition Crc Press
  - Advantages of eBooks Over Traditional Books
2. Identifying Water Technology Third Edition Crc Press
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Water Technology Third Edition Crc Press
  - User-Friendly Interface
4. Exploring eBook Recommendations from Water Technology Third Edition Crc Press
  - Personalized Recommendations

- Water Technology Third Edition Crc Press User Reviews and Ratings
- Water Technology Third Edition Crc Press and Bestseller Lists
- 5. Accessing Water Technology Third Edition Crc Press Free and Paid eBooks
  - Water Technology Third Edition Crc Press Public Domain eBooks
  - Water Technology Third Edition Crc Press eBook Subscription Services
  - Water Technology Third Edition Crc Press Budget-Friendly Options
- 6. Navigating Water Technology Third Edition Crc Press eBook Formats
  - ePub, PDF, MOBI, and More
  - Water Technology Third Edition Crc Press Compatibility with Devices
  - Water Technology Third Edition Crc Press Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Water Technology Third Edition Crc Press
  - Highlighting and Note-Taking Water Technology Third Edition Crc Press
  - Interactive Elements Water Technology Third Edition Crc Press
- 8. Staying Engaged with Water Technology Third Edition Crc Press
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Water Technology Third Edition Crc Press
- 9. Balancing eBooks and Physical Books Water Technology Third Edition Crc Press
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Water Technology Third Edition Crc Press
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Water Technology Third Edition Crc Press
  - Setting Reading Goals Water Technology Third Edition Crc Press
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Water Technology Third Edition Crc Press
  - Fact-Checking eBook Content of Water Technology Third Edition Crc Press

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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