

The Science Of Chocolate

The Science of ChocolateScience of ChocolateThe Science of ChocolateChocolate Science and TechnologyThe Science of ChocolateChocolate, Cocoa and Confectionery: Science and TechnologyThe Science of ChocolateChocolate, Cocoa and ConfectioneryThe Sweet Science of ChocolateChocolate and HealthChocolateScience and Technology of Enrobed and Filled Chocolate, Confectionery and Bakery ProductsEnglish Mechanic and World of ScienceChocolate, Cocoa, and ConfectioneryEnglish Mechanic and Mirror of ScienceCook's ScienceFood ScienceThe Canadian Magazine of Science and the Industrial Arts, Patent Office RecordEnglish Mechanic and Mirror of Science and ArtThe Phrenological Journal and Science of Health S. T. Beckett Stephen T Beckett Stephen T Beckett Emmanuel Ohene Afoakwa Stephen T Beckett Bernard Minifie Bernard W. Minifie Brian Thomas Philip K Wilson Kay Frydenborg Geoff Talbot Bernard W. Minifie Cook's Illustrated Norman N. Potter

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this book describes the complete chocolate making process from the growing of the beans to the sale in the shops

the science of chocolate leads the reader to an understanding of the complete chocolate making process and includes the ways in which basic science plays a vital role in its manufacture testing and consumption originally based upon a talk to encourage school children to study science the book is now widely used within industry and academia the third edition of this international best seller has been fully revised and updated the author has now included methods

of sensory evaluation designing and modifying chocolate flavour to suit the product and the history and manufacture of some well known confectionery products fat calorie and sugar reduction are also covered including a review of patents in this area in addition the section on why chocolate might be good for you has been updated to include some more recent research results three new experiments have been added so there are now twenty of them which use simple materials and apparatus to demonstrate the scientific and mathematical principles found in the rest of the book most are easily adapted to suit different student abilities this book will appeal to those with a fascination for chocolate and will be of specialist interest to those studying food sciences and working in the confectionery industry extracts from reviews of 2nd edition i found this to be an interesting read and i think the book would be useful to graduates thinking of a career in the food industry and not just the chocolate industry specifically to schoolteachers looking for some interesting experiments and to lecturers chemistry biochemistry botany food science looking for interesting facts to enliven their lectures bioscience education volume 12 2008 e j wood very well written and complete book for everyone who wants to learn more about chocolate and its production process crystallography reviews volume 15 2009 issue 4 pages 275 277 henk schenk the easy reading style of the book makes it valuable not only to school and university students but also to those who are new to working with chocolate or those needing a good summary of chocolate science chemistry world for the christmas books

chocolate is available to today s consumers in a variety of colours shapes and textures but how many of us as we savour our favourite brand consider the science that has gone into its manufacture this book describes the complete chocolate making process from the growing of the beans to the sale in the shops the science of chocolate first describes the history of this intriguing substance subsequent chapters cover the ingredients and processing techniques enabling the reader to discover not only how confectionery is made but also how basic science plays a vital role with coverage of scientific principles such as latent and specific heat maillard reactions and enzyme processes there is also discussion of the monitoring and controlling of the production process and the importance and variety of the packaging used today a series of experiments which can be adapted to suit students of almost any age is included to demonstrate the physical chemical or mathematical principles involved ideal for those studying food science or about to join the confectionery industry this mouth watering title will also be of interest to anyone with a desire to know more about the production of the world s favourite confectionery

chocolate science and technology this second edition provides information on recent advances in the science and technology of chocolate manufacture and the entire international cocoa industry

it provides detailed reviews of a wide range of topics including cocoa production cocoa and chocolate manufacturing operations sensory perception of chocolate quality flavour release and perception sugar replacement and alternative sweetening solutions in chocolate production industrial manufacture of sugar free chocolates and the nutrition and health benefits of cocoa and chocolate consumption the topics cover modern cocoa cultivation and production practices with special attention to cocoa bean composition genotypic variations in the bean post harvest pretreatments fermentation and drying processes and the biochemical basis of these operations the scientific principles behind industrial chocolate manufacture are outlined with detailed explanations of the various stages of chocolate manufacturing including mixing refining conching and tempering other topics covered include the chemistry of flavour formation and development during cocoa processing and chocolate manufacture volatile flavour compounds and their characteristics and identification sensory descriptions and character and flavour release and perception in chocolate the nutritional and health benefits of cocoa and chocolate consumption and the application of haccp and other food safety management systems such as iso 22000 in the chocolate processing industry are also addressed additionally detailed research on the influence of different raw materials and processing operations on the flavour and other quality characteristics of chocolates have been provided with scope for process optimization and improvement the book is intended to be a desk reference for all those engaged in the business of making and using chocolate worldwide confectionery and chocolate scientists in industry and academia students and practising food scientists and technologists nutritionists and other health professionals and libraries of institutions where agriculture food science and nutrition are studied and researched

the second edition of this international best seller has been fully revised and updated describing the complete chocolate making process from the growing of the beans to the sale in the shops the science of chocolate takes the reader on the journey of chocolate to discover how confectionery is made and the way in which basic science plays a vital role the second edition contains new chapters covering topics which include nutrition why chocolate is good for you how to stop it melting in hot countries and possible methods of putting bubble inside a chocolate bar this book will appeal to those with a fascination for chocolate and will be of specialist interest to those studying food sciences and working in the confectionery industry a series of experiments which can be adapted to suit students are included to demonstrate the physical chemical and mathematical principles involved

the second edition of this book achieved worldwide recognition within the chocolate and

confectionery industry i was pressed to prepare the third edition to include modern developments in machinery production and packaging this has been a formidable task and has taken longer than anticipated students still require in one book descriptions of the fundamental principles of the industry as well as an insight into modern methods therefore parts of the previous edition describing basic technology have been retained with minor alterations where necessary with over fifty years experience in the industry and the past eighteen years working as an author lecturer and consultant i have collected a great deal of useful information visits to trade exhibitions and to manufacturers of raw materials and machinery in many parts of the world have been very valuable much research and reading have been necessary to prepare for teaching and lecturing at various colleges seminars and manufacturing establishments the third edition is still mainly concerned with science technology and production it is not a book of formulations which are readily available elsewhere formulations without knowledge of principles lead to many errors and recipes are given only where examples are necessary analytical methods are described only when they are not available in textbooks of which there are many on standard methods of food analysis acknowledgments i am still indebted to many of the persons mentioned under acknowledgments in the second edition i am especially grateful to the following

explore the chemistry of chocolate and how the chemistry relates to the flavor and effects of chocolate on the human body and why even after 3 400 years of cocoa consumption chocolate remains somewhat of a mystery

embark on an extraordinary journey into the fascinating world of chocolate perfect for young readers aged 7 to 12 this book uncovers the mysteries behind your favorite sweet treat from the ancient civilizations that first discovered cacao to the modern science of tempering every page is packed with amazing facts engaging stories and surprising discoveries learn how cacao is grown in tropical rainforests explore the chemistry that makes chocolate melt in your mouth and discover the environmental challenges that affect its future dive into fun experiments you can try at home full of history science and creativity this book transforms chocolate from a simple snack into a story of innovation and wonder whether you re a budding scientist a history buff or just a chocolate lover this book will leave you with a newfound appreciation for the world s most beloved treat

following on from their previous volume on chocolate as medicine philip k wilson and w jeffrey hurst edit this companion volume chocolate and health providing a comprehensive overview of the chemistry nutrition and bioavailability of cacao and chocolate the book begins with a brief historical introduction to the topic outlining the current and historical medical uses of chocolate

and chocolate derivatives the remainder of the text is arranged into three sections taking the reader through various aspects of the nutritional and health aspects of cacao the first section covers the cultivation chemistry and genome analysis of cacao the second section discusses the biochemistry and nutritional components of cacao in relation to health covering bioavailability and the metabolism and metabolomics of cacao the final section provides an overview of the potential use of chocolate in health and medical care each section is written and prepared by experts within each field providing a global perspective of the current and ongoing research in this area this text provides the reader with a complete overview of the field and is of interest to food and biomedical scientists as well as nutritionists medicinal chemists and anyone with an interest in chocolate

a deliciously informative engaging and sweeping chronicle of one of the most popular treats in the world kirkus reviews chocolate explores many aspects of the much loved cacao bean cutting edge genetic science social and environmental considerations history and culture providing a thought provoking look into one of the world s most popular foods through the centuries it relates fun facts as well like the story of the children who went on strike to protest a price hike on candy bars after world war ii and were accused of being communist agents as a bonus it also includes photos and some sweet recipes fascinating excellent and highly original school library journal starred review

enrobed and filled confectionery and bakery products such as praline style chocolates confectionery bars and chocolate coated biscuits and ice creams are popular with consumers the coating and filling can negatively affect product quality and shelf life but with the correct product design and manufacturing technology the characteristics of the end product can be much improved this book provides a comprehensive overview of quality issues affecting enrobed and filled products and strategies to enhance product quality part one reviews the formulation of coatings and fillings with chapters on key topics such as chocolate manufacture confectionery fats compound coatings and fat and sugar based fillings product design issues such as oil moisture and ethanol migration and chocolate and filling rheology are the focus of part two shelf life prediction and testing are also discussed part three then covers the latest ingredient preparation and manufacturing technology for optimum product quality chapters examine tempering enrobing chocolate panning production of chocolate shells and deposition technology with its experienced team of authors science and technology of enrobed and filled chocolate confectionery and bakery products is an essential purchase for professionals in the chocolate confectionery and bakery industries provides a comprehensive review of quality issues affecting

enrobed and filled products reviews the formulation of coatings and fillings addressing confectionery fats compound coatings and sugar based fillings focuses on product design issues such as oil moisture and chocolate filling rheology

recognised as the industry standard this definitive guide provides a comprehensive review of chocolate and confectionary production and processing operations the technical and scientific aspects of the various manufacturing procedures are emphasized formulations and recipes are used as needed to supplement explanations and to advance understanding of a particular process other areas include raw materials emulsifiers replacers and compounds ingredients sweeteners starches and colors applied methods food value packaging and entomology

in cook s science the all new companion to the new york times bestselling the science of good cooking america s test kitchen deep dives into the surprising science behind 50 of our favorite ingredients and uses that science to make them taste their best from the editors of cook s illustrated and the best selling the science of good cooking comes an all new companion book highlighting 50 of our favorite ingredients and the sometimes surprising science behind them cook s science each chapter explains the science behind one of the 50 ingredients in a short informative essay topics ranging from pork shoulder to apples to quinoa to dark chocolate before moving onto an original and sometimes quirky experiment performed in our test kitchen and designed to show how the science works the book includes 50 dynamic full page color illustrations giving in depth looks at individual ingredients family trees of ingredients and cooking techniques like sous vide dehydrating and fermentation the 400 foolproof recipes included take the science into the kitchen and range from crispy fried chicken wings to meaty tasting vegetarian chili coconut layer cake to strawberry rhubarb pie

now in its fifth edition food science remains the most popular and reliable text for introductory courses in food science and technology this new edition retains the basic format and pedagogical features of previous editions and provides an up to date foundation upon which more advanced and specialized knowledge can be built this essential volume introduces and surveys the broad and complex interrelationships among food ingredients processing packaging distribution and storage and explores how these factors influence food quality and safety reflecting recent advances and emerging technologies in the area this new edition includes updated commodity and ingredient chapters to emphasize the growing importance of analogs macro substitutions fat fiber and sugar substitutes and replacement products especially as they affect new product development and increasing concerns for a healthier diet revised processing chapters include changing attitudes toward food irradiation greater use of microwave cooking and microwaveable

products controlled and modified atmosphere packaging and expanding technologies such a extrusion cooking ohmic heating and supercritical fluid extraction new information that addresses concerns about the responsible management of food technology considering environmental social and economic consequences as well as the increasing globalization of the food industry discussions of food safety an consumer protection including newer phychrotropic pathogens haacp techniques for product safety and quality new information on food additives pesticides and hormones and the latest information on nutrition labeling and food regulation an outstanding text for students with little or no previous instruction in food science and technology food science is also a valuable reference for professionals in food processing as well as for those working in fields that service regulate or otherwise interface with the food industry

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