

Visualizing Everyday Chemistry

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visualizing everyday chemistry binder ready version is for a one semester course dedicated to introducing chemistry to non science students it shows what chemistry is and what it does by integrating words with powerful and compelling visuals and learning aids with this approach students not only learn the basic principles of chemistry but see how chemistry impacts their lives and society the goal of visualizing everyday chemistry binder ready version is to show students that chemistry is important and relevant not because we say it is but because they see it is this text is an unbound binder ready version

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for everybody teaching chemistry or becoming a chemistry teacher the authors provide a practice oriented overview with numerous examples from current chemical education including experiments models and exercises as well as relevant results from research on learning and teaching with their proven concept the authors cover classical topics of chemical education as well as modern topics such as every day life chemistry student s misconceptions the use of media or the challenges of motivation this is the completely revised and updated english edition of a highly successful german title

this book is aimed at chemistry teachers teacher educators chemistry education researchers and all those who are interested in increasing the relevance of chemistry teaching and learning as well as students perception of it the book consists of 20 chapters each chapter focuses on a certain issue related to the relevance of chemistry education these chapters are based on a recently suggested model of the relevance of science education encompassing individual societal and vocational relevance its present and future implications as well as its intrinsic and extrinsic aspects two highly distinguished chemical educators ingo eilks and avihofstein have brought together 40 internationally renowned colleagues from 16 countries to offer an authoritative view of chemistry teaching today between them the authors in 20 chapters give an exceptional description of the current state of chemical education and signpost the future in both research and in the classroom there is special emphasis on the many attempts to enthuse students with an understanding of the central science chemistry which will be helped by having an appreciation of the role of the science in today s world themes which transcend all education such as collaborative work communication skills attitudes inquiry learning and teaching and problem solving are covered in detail and used in the context of teaching modern chemistry the book is divided into four parts which describe the individual the societal the vocational and economic and the non formal

dimensions and the editors bring all the disparate leads into a coherent narrative that will be highly satisfying to experienced and new researchers and to teachers with the daunting task of teaching such an intellectually demanding subject just a brief glance at the index and the references will convince anyone interested in chemical education that this book is well worth studying it is scholarly and readable and has tackled the most important issues in chemical education today and in the foreseeable future

professor david waddington emeritus professor in chemistry education university of york united kingdom

excerpt from everyday chemistry the small high school which cannot afford expensive equipment has been constantly in mind during the preparation of this text the exercises call for no complicated apparatus most of the experiments may be performed by means of simple homemade devices or even in many cases by the use of kitchen utensils no one group of pupils should be required to use all the material in this book since a wide range of topics has been treated in order to meet the varying needs of boys and girls after the first thirty five chapters have been completed the boys and girls may be separated and allowed to study those chapters which are of particular interest to each group this book is especially suitable for use in the vocational courses in agriculture and home economics which are being introduced in many high schools about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

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