

## J A Beran Lab Manual Experiment 14

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The Iron(III) Thiocyanate Reaction Family,  
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Vessel Health and Preservation: The Right Approach for Vascular Access  
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PLUS Learning Space Card  
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Solutions Manual  
Environmental Chemistry  
Algorithms for Memory

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## **Immunisation against infectious diseases**

Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well.

Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation

of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

### **The Clinician's Vaccine Safety Resource Guide**

A lab manual for the General Chemistry course, Beran has been popular for seven editions because of its broad selection of experiments and clear layout and design. Containing enough material for two or three terms, this lab manual emphasizes chemical principles as well as techniques. In addition, the manual helps students understand the timing and situations for the various techniques.

## **Introduction to Time Series Using Stata Revised Edition**

This remarkably popular lab manual has won over users time and time again with its exceedingly clear presentation and broad selection of topics and experiments. Now revised and fine-tuned, this new Seventh Edition features three new experiments: Water Analysis: Solids (Experiment 3); Vitamin C Analysis (Experiment 16); and Hard Water Analysis (Experiment 30). In addition, nearly 90% of the Prelaboratory Assignment Questions and Laboratory Questions are either new or revised.

## **Nutrition and Chronic Conditions**

"Atoms First seems to be the flavor of the year in chemistry textbooks, but many of them seem to be little more than rearrangement of the chapters. It takes a master like McQuarrie to go back to the drawing board and create a logical development from smallest to largest that makes sense to students."---Hal Harris, University of Missouri-St. Louis "McQuarrie's book is extremely well written, the order of topics is logical, and it does a great job with both introductory material and more advanced concepts. Students of all skill levels will be able to learn from this book."---Mark Kearley, Florida State University This new fourth edition of General Chemistry takes an atoms-first approach from beginning to end. In the tradition of McQuarrie's

many previous works, it promises to be another ground-breaking text. This superb new book combines the clear writing and wonderful problems that have made McQuarrie famous among chemistry professors and students worldwide. Presented in an elegant design with all-new illustrations, it is available in a soft-cover edition to offer professors a fresh choice at an outstanding value. Student supplements include an online series of descriptive chemistry Interchapters, a Student Solutions Manual, and an optional state-of-the-art Online Homework program. For adopting professors, an Instructor's Manual and a CD of the art are also available.

### **Teratogens**

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## **Laboratory Manual for Principles of General Chemistry, 10th Edition**

### **Remote Compositional Analysis**

The most successful general chemistry textbook published in 30 years is now specifically written for Canadian students. This innovative, pedagogically driven text explains difficult concepts in a student-oriented manner. The book offers a rigorous and accessible treatment of general chemistry in the context of relevance. Chemistry is presented visually through multi-level images--macroscopic, molecular and symbolic representations--helping students see the connections among the formulas (symbolic), the world around them (macroscopic), and the atoms and molecules that make up the world (molecular). Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. Students, if interested in purchasing this title with

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### **Toxicological Profile for Selenium**

### **Lab Manual Experiments in General Chemistry**

Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing is organized around disease types (genetic disease, infectious disease, neoplastic disease, among others). In each section, the authors provide background on disease mechanisms and describe how laboratory testing is built on knowledge of these mechanisms. Sections are dedicated to general methodologies employed in testing (to convey the concepts reflected in the methods), and specific description of how

these methods can be applied and are applied to specific diseases are described. The book does not present molecular methods in isolation, but considers how other evidence (symptoms, radiology or other imaging, or other clinical tests) is used to guide the selection of molecular tests or how these other data are used in conjunction with molecular tests to make diagnoses (or otherwise contribute to clinical workup). In addition, final chapters look to the future (new technologies, new approaches) of applied molecular pathology and how discovery-based research will yield new and useful biomarkers and tests. Diagnostic Molecular Pathology: A Guide to Applied Molecular Testing contains exercises to test readers on their understanding of how molecular diagnostic tests are utilized and the value of the information that can be obtained in the context of the patient workup. Readers are directed to an ancillary website that contains supplementary materials in the form of exercises where decision trees can be employed to simulate actual clinical decisions. Focuses on the menu of molecular diagnostic tests available in modern molecular pathology or clinical laboratories that can be applied to disease detection, diagnosis, and classification in the clinical workup of a patient Explains how molecular tests are utilized to guide the treatment of patients in personalized medicine (guided therapies) and for prognostication of disease Features an ancillary website with self-testing exercises where decision trees can be employed to simulate actual clinical decisions Highlights new technologies and approaches of applied molecular pathology and how discovery-based research will yield new and useful biomarkers and tests

## **The Iron(III) Thiocyanate Reaction**

A lab manual for the General Chemistry course, Beran has been popular for the past nine editions because of its broad selection of experiments, clear layout, and design. Containing enough material for two or three terms, this lab manual emphasizes chemical principles as well as techniques. In addition, the manual helps students understand the timing and situations for various techniques.

## **Family, Bullying and Cyberbullying**

Comprehensive overview of the spectroscopic, mineralogical, and geochemical techniques used in planetary remote sensing.

## **Favorite Demonstrations for College Science**

## **Field Manual of Wildlife Diseases**

This Brief presents an historical investigation into the reaction between ferric ions and thiocyanate ions, which has been viewed in different ways throughout the last two centuries. Historically, the reaction was used in chemical analysis and to

highlight the nature of chemical reactions, the laws of chemistry, models and theories of chemistry, chemical nomenclature, mathematics and data analysis, and instrumentation, which are important ingredients of what one might call the nature of chemistry. Using the history of the iron(III) thiocyanate reaction as a basis, the book's main objective is to explore how chemistry develops its own knowledge base; how it assesses the reliability of that base; and how some important tools of the trade have been brought to bear on a chemical reaction to achieve understanding, a worthwhile goal of any historical investigation.

### **General Chemistry Laboratories**

Each experiment in this manual was selected to match topics in your textbook and includes an introduction, a procedure, a page of pre-lab exercises about the concepts the lab illustrates, and a report form. Some have a scenario that places the experiment in a real-world context. For this edition, minor updates have been made to the lab manual to address some safety concerns.

### **The State of Food Security and Nutrition in the World 2019**

This book is a printed edition of the Special Issue "Nutrition and Chronic Conditions" that was published in *Nutrients*

## **Chemistry**

### **Introductory Chemistry**

Winner in its first edition of the Best New Undergraduate Textbook by the Professional and Scholarly Publishing Division of the American Association of Publishers (AAP), Kosky, et al is the first text offering an introduction to the major engineering fields, and the engineering design process, with an interdisciplinary case study approach. It introduces the fundamental physical, chemical and material bases for all engineering work and presents the engineering design process using examples and hands-on projects. Organized in two parts to cover both the concepts and practice of engineering: Part I, Minds On, introduces the fundamental physical, chemical and material bases for all engineering work while Part II, Hands On, provides opportunity to do design projects An Engineering Ethics Decision Matrix is introduced in Chapter 1 and used throughout the book to pose ethical challenges and explore ethical decision-making in an engineering context Lists of "Top Engineering Achievements" and "Top Engineering Challenges" help put the material in context and show engineering as a vibrant discipline involved in solving societal problems New to this edition: Additional discussions on what engineers do, and the distinctions between engineers, technicians, and managers

(Chapter 1) New coverage of Renewable Energy and Environmental Engineering helps emphasize the emerging interest in Sustainable Engineering New discussions of Six Sigma in the Design section, and expanded material on writing technical reports Re-organized and updated chapters in Part I to more closely align with specific engineering disciplines new end of chapter exercises throughout the book

## **Laboratory Techniques in Rabies**

## **Principles of General Chemistry**

## **Transforming the Workforce for Children Birth Through Age 8**

This book provides clinicians and their staff with essential information on the vaccines that are recommended and not recommended for their patients, the diseases these vaccines prevent, and a broad range of potential vaccine safety issues that may be brought up by their patients. Each topic, from specific vaccines to safety concerns, is covered succinctly, based upon systematic reviews of the scientific literature, with talking points to be used with patients. The organization of the information makes it easy to reference specific topics and quickly find

pertinent information, with the most practical details (such as recommendations and causality conclusions) highlighted at the very beginning of the respective sections. There are also sections outlining the vaccine safety system and evidence-based strategies for how to talk with patients about vaccines. This book aims to improve the efficiency and effectiveness of clinical vaccine discussions with patients, leading to more informed patients and timely vaccination. This is an ideal resource for all clinicians administering vaccines and their healthcare teams.

### **Sepsis**

This is the third edition of this publication which contains the latest information on vaccines and vaccination procedures for all the vaccine preventable infectious diseases that may occur in the UK or in travellers going outside of the UK, particularly those immunisations that comprise the routine immunisation programme for all children from birth to adolescence. It is divided into two sections: the first section covers principles, practices and procedures, including issues of consent, contraindications, storage, distribution and disposal of vaccines, surveillance and monitoring, and the Vaccine Damage Payment Scheme; the second section covers the range of different diseases and vaccines.

### **Laboratory Manual for Principles of General Chemistry**

Neuroblastoma is a medical enigma. As a childhood neoplasm arising from neural crest cells, it is characterized by diverse clinical behaviors ranging from spontaneous remission to rapid tumor progression and death. Although clinical outcome can be predicted to a large extent by the stage of disease and the age at diagnosis, an in-depth understanding of its clinico-pathological behavior, now greatly aided by sophisticated molecular genetic profiling, will improve diagnostic precision and refine risk-based therapies. Comprehensive international efforts have advanced our understanding of tumor biology and improved the clinical management of children with neuroblastoma. This book reviews our current understanding of the genes and biological pathways that contribute to neuroblastoma pathogenesis, modern risk-based treatment approaches for these patients, and recent advances in biologically based therapy. It provides a concise up-to-date reference for practitioners, students, and researchers.

## **Principles of General Chemistry**

### **Chemistry**

### **General Chemistry**

Despite the significant decrease in bullying that has been reported in many countries during the last two decades, bullying continues to be a significant problem among young people. Given the increase of internet use among youth, researchers have started to pay attention to cyberspace, understanding that it may be a fertile ground for bullying behaviors, specifically, what is known as cyberbullying. “Family, Bullying and Cyberbullying” examines the association of several family variables with bullying in offline and online environments during childhood and adolescence. Contributors from the Americas, Canada, Asia, and Europe offer cutting-edge research on family dynamics, bystander behaviors, parents’ and educators’ perceptions, and bullying and cyberbullying prevention and intervention strategies of bullying for school and home. This book also provides an analysis of the current research on the influence of family in the electronic bullying. Research topics included in the book: 1) Parental education and bullying and cyberbullying; 2) Parental monitoring and cyberbullying; 3) Parental communication and feelings of affiliation; 4) Student and educator perspective on cyberbullying; 5) Parents’ responses to bullying; 6) Parental mediation and bystander behaviors; 7) Development of scales to measure cyberbullying and high internet risks. “Family, Bullying and Cyberbullying” is an essential resource for researchers, graduate students, families, and practitioners in social education, social work, teacher education, and psychology.

### **Chemical Principles**

The book is an all-in-one compilation of 36 popular classroom demonstrations published since 1993 in the “Favorite Demonstration” column of NSTA’s Journal of College Science Teaching. The collection begins with a chapter on safety, “The Rules of Research.” From there, chapters emphasize conveying scientific principles while making them memorable.

### **MasteringChemistry with Pearson EText -- Standalone Access Card -- for Principles of Chemistry**

#### **General Chemistry**

This multi-author work deals with the practical aspects of teratogens - chemicals which cause birth defects. It is designed for use as a unique guide to these chemicals in which one can find all relevant information. The issues covered include: how to obtain information about the teratogenic potential of chemicals; teratogenic chemicals in undergraduate chemistry laboratories; safe handling of teratogenic chemicals; teratogenicity of pesticides and other pollutants in the environment; occupational exposure and pregnancy outcome; identification and prevention of reproductive hazards in industry; and the long-term effects of chemicals on the developing brain. A list of approximately 5,000 chemicals known

to cause reproductive effects is given. A comprehensive bibliography is included with each chapter providing up-to-date references for more in-depth coverage. The monograph will be of interest to academic and industrial chemists, health professionals, as well as both undergraduate and graduate students in health and related sciences.

### **A Practical Guide to Basic Laboratory Andrology**

Introduction to Time Series Using Stata, Revised Edition provides a step-by-step guide to essential time-series techniques—from the incredibly simple to the quite complex— and, at the same time, demonstrates how these techniques can be applied in the Stata statistical package. The emphasis is on an understanding of the intuition underlying theoretical innovations and an ability to apply them. Real-world examples illustrate the application of each concept as it is introduced, and care is taken to highlight the pitfalls, as well as the power, of each new tool. The Revised Edition has been updated for Stata 16.

### **Laboratory Manual for Principles of General Chemistry, 9th Edition**

This new edition of the Beran lab manual emphasizes chemical principles as well as

techniques. The manual helps students understand the timing and situations for the various techniques. The Beran lab manual has long been a market leading lab manual for general chemistry. Each experiment is presented with concise objectives, a comprehensive list of techniques, and detailed lab intros and step-by-step procedures.

### **Vessel Health and Preservation: The Right Approach for Vascular Access**

See how chemistry is relevant to your life Now in its fifth edition, Introductory Chemistry continues to foster deep engagement in the course by showing how chemistry manifests in your daily life. Author Nivaldo Tro draws upon his classroom experience as an award-winning instructor to extend chemistry from the laboratory to your world, with relevant applications and a captivating writing style. Closely integrated with the fifth edition of Introductory Chemistry, MasteringChemistry® gives you the tools you need to succeed in this course. This program provides you a better learning experience. It will help you to:

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- Achieve deep conceptual understanding: Several new Conceptual Checkpoints and Self- Assessment Quizzes

help you better grasp key concepts. • Develop problem-solving skills: A step-by-step framework encourages you to think logically rather than simply memorize formulas. Additional worked examples, enhanced with audio and video, reinforce challenging problems. • Maintain interest in chemistry: The inclusion of concrete examples of key ideas throughout the program keeps you engaged in the material. Note: If you are purchasing the standalone text or electronic version, MasteringChemistry does not come automatically packaged with the text. To purchase MasteringChemistry please visit: [www.masteringchemistry.com](http://www.masteringchemistry.com) or you can purchase a package of the physical text + MasteringChemistry by searching for 9780321910073 / 0321910079. MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

### **Exploring Engineering**

The study of the chimpanzee, one of the human species' closest relatives, has led scientists to exciting discoveries about evolution, behavior, and cognition over the past half century. In this book, rising and veteran scholars take a fascinating comparative approach to the culture, behavior, and cognition of both wild and captive chimpanzees. By seeking new perspectives in how the chimpanzee compares to other species, the scientists featured offer a richer understanding of the ways in which chimpanzees' unique experiences shape their behavior. They also demonstrate how different methodologies provide different insights, how

various cultural experiences influence our perspectives of chimpanzees, and how different ecologies in which chimpanzees live affect how they express themselves. After a foreword by Jane Goodall, the book features sections that examine chimpanzee life histories and developmental milestones, behavior, methods of study, animal communication, cooperation, communication, and tool use. The book ends with chapters that consider how we can apply contemporary knowledge of chimpanzees to enhance their care and conservation. Collectively, these chapters remind us of the importance of considering the social, ecological, and cognitive context of chimpanzee behavior, and how these contexts shape our comprehension of chimpanzees. Only by leveraging these powerful perspectives do we stand a chance at improving how we understand, care for, and protect this species.

### **Laboratory Manual for General Chemistry and Introduction to General and Organic Chemistry**

This Open access book offers updated and revised information on vessel health and preservation (VHP), a model concept first published in poster form in 2008 and in JVA in 2012, which has received a great deal of attention, especially in the US, UK and Australia. The book presents a model and a new way of thinking applied to vascular access and administration of intravenous treatment, and shows how

establishing and maintaining a route of access to the bloodstream is essential for patients in acute care today. Until now, little thought has been given to an intentional process to guide selection, insertion and management of vascular access devices (VADs) and by default actions are based on crisis management when a quickly selected VAD fails. The book details how VHP establishes a framework or pathway model for each step of the patient experience, intentionally guiding, improving and eliminating risk when possible. The evidence points to the fact that reducing fragmentation, establishing a pathway, and teaching the process to all stakeholders reduces complications with intravenous therapy, improves efficiency and diminishes cost. As such this book appeals to bedside nurses, physicians and other health professionals.

### **Neuroblastoma**

This practical, extensively illustrated handbook covers the procedures that are undertaken in andrology and ART laboratories to analyse and assess male-factor infertility, and to prepare spermatozoa for use in assisted conception therapy. The content is presented as brief, authoritative overviews of the relevant biological background for each area, plus detailed, step-by-step descriptions of the relevant analytical procedures. Each technical section includes pertinent quality control considerations, as well as the optimum presentation of results. In addition to the comprehensive 'basic' semen analysis, incorporating careful analysis of sperm

morphology, the handbook provides established techniques for the use of computer-aided sperm analysis and sperm functional assessment. Throughout the handbook the interpretation of laboratory results in the clinical context is highlighted, and safe laboratory practice is emphasized. It is an invaluable resource to all scientists and technicians who perform diagnostic testing for male-factor infertility.

### **Laboratory Manual for Principles of General Chemistry, 10th Edition WileyPLUS Learning Space Card**

This year's report presents evidence that the absolute number of people who suffer from hunger continues to slowly increase. The report also highlights that food insecurity is more than just hunger. For the first time, the report provides evidence that many people in the world, even if not hungry, experience moderate food insecurity as they face uncertainties about their ability to obtain food and are forced to compromise on the quality and/or quantity of the food they consume. This phenomenon is observed globally, not only in low- and middle-income countries but also in high income countries. The report also shows that the world is not on track to meet global nutrition targets, including those on low birthweight and on reducing stunting among children under five years. Moreover, overweight and obesity continue to increase in all regions, particularly among school-age

children and adults. The report stresses that no region is exempt from the epidemic of overweight and obesity, underscoring the necessity of multifaceted, multisectoral approaches to halt and reverse these worrying trends. In light of the fragile state of the world economy, the report presents new evidence confirming that hunger has been on the rise for many countries where the economy has slowed down or contracted. Unpacking the links between economic slowdowns and downturns and food insecurity and malnutrition, the report contends that the effects of the former on the latter can only be offset by addressing the root causes of hunger and malnutrition: poverty, inequality and marginalization.

### **Diagnostic Molecular Pathology**

### **Solutions Manual**

This volume covers microbiological, clinical and pathophysiological aspects of sepsis and also provides general overview chapters with every chapter discussing the real clinical impact of the discussed diagnostic approaches. Sepsis is a major clinical problem that takes an inordinate toll on human lives and economical resources. It is widely recognized that inappropriate treatment is associated with a dramatic increase in mortality, especially within the first hours, therefore clinical and

microbiological diagnosis are of pivotal importance in the management of septic patients. Written in the successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, Sepsis: Diagnostic Methods and Protocols seeks to serve both professionals and novices with its well-honed methodologies in an effort to further our knowledge of this life-threatening illness.

### **Environmental Chemistry**

This book presents chemical analyses of our most pressing waste, pollution, and resource problems for the undergraduate or graduate student. The distinctive holistic approach provides both a solid ground in theory, as well as a laboratory manual detailing introductory and advanced experimental applications. The laboratory procedures are presented at microscale conditions, for minimum waste and maximum economy. This work fulfills an urgent need for an introductory text in environmental chemistry combining theory and practice, and is a valuable tool for preparing the next generation of environmental scientists.

### **Algorithms for Memory Hierarchies**

Algorithms that have to process large data sets have to take into account that the cost of memory access depends on where the data is stored. Traditional algorithm design is based on the von Neumann model where accesses to memory have uniform cost. Actual machines increasingly deviate from this model: while waiting for memory access, nowadays, microprocessors can in principle execute 1000 additions of registers; for hard disk access this factor can reach six orders of magnitude. The 16 coherent chapters in this monograph-like tutorial book introduce and survey algorithmic techniques used to achieve high performance on memory hierarchies; emphasis is placed on methods interesting from a theoretical as well as important from a practical point of view.

### **Chimpanzees in Context**

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Bestselling author Niva Tro has always believed "the behavior of matter is determined by the properties of molecules and atoms" to be the most important discovery in scientific knowledge. This idea is the entire factor for his seminal new text-- Chemistry: Structure and Properties. Dr. Tro emphasizes the relationship between structure and properties, establishes a unique approach to teaching chemistry by presenting atomic and bonding theories early in the text, and stresses key themes throughout. The book is organized to present chemistry as a logical, cohesive story from the microscopic to the macroscopic, so students can fully grasp the theories and framework behind the chemical facts. Every topic has been carefully crafted to convey to students that the relationship between structure and properties is the thread that weaves all of chemistry together. While developed independently of other Tro texts, Chemistry: Structure and Properties incorporates the author's vivid writing style, chemical rigor, dynamic multi-level images, and tested features. His consistent conceptual focus and step-by-step problem-solving framework encourages you to think through processes rather than simply memorize content. Interactive media within MasteringChemistry® complements the book's problem-solving approach, thus creating a comprehensive

program that enables you to learn both in and out of the classroom. This program presents a better teaching and learning experience-for you. Personalized learning with MasteringChemistry: This online homework, tutorial, and assessment program is designed to improve results by helping you quickly master concepts. You'll benefit from self-paced tutorials, featuring specific wrong-answer feedback and hints that emulate the office-hour experience. Developed with a central theme and by a teaching community: As part of a community that teaches with the understanding that matter is composed of particles and the structure of those particles determines the properties of matter, Dr. Tro took great lengths in the text to ensure that everything from organization, art, and pedagogy reinforce this theme. The result of this emphasis is that the topic order has been constructed to make key connections earlier, stronger, and more often than the traditional approach. Linking conceptual understanding with problem-solving skills: Throughout each chapter, numerous Conceptual Connections encourage comprehension of the most complex concepts while a consistent step-by-step framework in the worked examples allows you to think logically through the problem-solving process. Visualizing and understanding chemistry: Revolutionary multipart images illustrate and reinforce the theme of the text and allows you to see and experience the molecules responsible for the structures and properties of matter. Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. If you would like to purchase both the physical text and MasteringChemistry search for ISBN-10: 0321729730/ISBN-13:

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