

Transport Document For Lithium Batteries In Section Ib And Ii

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Advanced Battery Development 1989

Global Trends 2040 - National Intelligence Council 2021-03

"The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." -Global Trends 2040 (2021) Global Trends 2040-A More Contested World (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for a glimpse into the next decades, will find this report, with colored graphs, essential reading.

Handbook on Battery Energy Storage Systems Asian Development Bank 2018-12-01

This handbook serves as a guide to deploying battery energy storage technologies, specifically for distributed energy resources and flexibility resources. Battery energy storage technology is the most promising, rapidly developed technology as it provides higher efficiency and ease of control. With energy transition through decarbonization and decentralization, energy storage plays a significant role to enhance grid efficiency by alleviating volatility from demand and supply. Energy storage also contributes to the grid integration of renewable energy and promotion of microgrid.

Guidance Manual for Operators of Small Gas Systems - 1985

Hazardous Materials Placarding Chart 1985

Building the U.S. Battery Industry for Electric Drive Vehicles National Research Council 2013-01-03

Since 1991, the National Research Council, under the auspices of the Board on Science, Technology, and Economic Policy, has undertaken a program of activities to improve policymakers' understandings of the interconnections of science, technology, and economic policy and their importance for the American economy and its international competitive position. The Board's activities have corresponded with increased policy recognition of the importance of knowledge and technology to economic growth. The goal of this symposium was to conduct two public symposia to review and analyze the potential contributions of public-private partnerships and identify other relevant issues for the Department of Energy, Office of Vehicle Technologies, Energy Storage Team's activities in the energy storage research and development area. The symposia will also identify lessons from these and other domestic and international experiences to help inform DoE as to whether its activities are complete and appropriately focused. Additional topics that emerge in the course of the planning may also be addressed. Building the U.S. Battery Industry for Electric Drive Vehicles: Summary of a Symposium gathers representatives from leading battery manufacturers, automotive firms, university researchers, academic and industry analysts, congressional staff, and federal agency representatives. An individually-authored summary of each symposium will be issued. The symposium was held in Michigan in order to provide direct access to the policymakers and industrial participants drawn from the concentration of battery manufacturers and automotive firms in the region. The

symposium reviewed the current state, needs, and challenges of the U.S. advanced battery manufacturing industry; challenges and opportunities in battery R&D, commercialization, and deployment; collaborations between the automotive industry and battery industry; workforce issues, and supply chain development. It also focused on the impact of DoE's investments and the role of state and federal programs in support of this growing industry. This task of this report is to summarize the presentations and discussions that took place at this symposium. Needless to say, the battery industry has evolved very substantially since the conference was held, and indeed some of the caveats raised by the speakers with regard to overall demand for batteries and the prospects of multiple producers now seem prescient. At the same time, it is important to understand that it is unrealistic to expect that all recipients of local, state, or federal support in a complex and rapidly evolving industry will necessarily succeed. A number of the firms discussed here have been absorbed by competitors, others have gone out of business, and others continue to progress.

Rechargeable Lithium Batteries - Alejandro Franco 2015-04-07

Rechargeable Lithium Batteries: From Fundamentals to Application provides an overview of rechargeable lithium batteries, from fundamental materials, though characterization and modeling, to applications. The market share of lithium ion batteries is fast increasing due to their high energy density and low maintenance requirements. Lithium air batteries have the potential for even higher energy densities, a requirement for the development of electric vehicles, and other types of rechargeable lithium battery are also in development. After an introductory chapter providing an overview of the main scientific and technological challenges posed by rechargeable Li batteries, Part One of this book reviews materials and characterization of rechargeable lithium batteries. Part Two covers performance and applications, discussing essential aspects such as battery management, battery safety and emerging rechargeable lithium battery technologies as well as medical and aerospace applications. Expert overview of the main scientific and technological challenges posed by rechargeable lithium batteries Address the important topics of analysis, characterization, and modeling in rechargeable lithium batteries Key analysis of essential aspects such as battery management, battery safety, and emerging rechargeable lithium battery technologies

Lithium-Ion Batteries Hazard and Use Assessment - Celina Mikolajczak 2012-03-23

Lithium-Ion Batteries Hazard and Use Assessment examines the usage of lithium-ion batteries and cells within consumer, industrial and transportation products, and analyzes the potential hazards associated with their prolonged use. This book also surveys the applicable codes and standards for lithium-ion technology. Lithium-Ion Batteries Hazard and Use Assessment is designed for practitioners as a reference guide for lithium-ion batteries and cells. Researchers working in a related field will also find the book valuable.

Electrochemical Power Sources: Fundamentals, Systems, and Applications - Jürgen Garche 2018-09-28

Safety of Lithium Batteries describes how best to assure safety during all phases of the life of Lithium ion batteries (production, transport, use, and disposal). About 5 billion Li-ion cells are produced each year, predominantly for use in consumer electronics. This book describes how the high-energy density and outstanding performance of Li-ion batteries will result in a large increase in the production of Li-ion cells for electric drive train vehicle (xEV) and battery energy storage (BES or EES) purposes. The high-energy density of Li battery systems comes with special hazards related to the materials employed in these systems. The manufacturers of cells and batteries have strongly reduced the hazard probability by a number of measures. However, absolute safety of the Li system is not given as multiple incidents in consumer electronics have

shown. Presents the relationship between chemical and structure material properties and cell safety Relates cell and battery design to safety as well as system operation parameters to safety Outlines the influences of abuses on safety and the relationship to battery testing Explores the limitations for transport and storage of cells and batteries Includes recycling, disposal and second use of lithium ion batteries

Advanced Ceramics and Applications - Rainer Gadow 2021-10-04
New ceramic materials are highly appreciated due to their manifold features including mechanical properties, environmental uses, energy applications and many more. This work presents the latest research development and covers a broad range of topics from stabilized zirconia ceramics with enhanced functional properties to ceramic components in medical/biological applications.

Advances in Lithium Ion Batteries - Walter van Schalkwijk 2007-05-08
In the decade since the introduction of the first commercial lithium-ion battery research and development on virtually every aspect of the chemistry and engineering of these systems has proceeded at unprecedented levels. This book is a snapshot of the state-of-the-art and where the work is going in the near future. The book is intended not only for researchers, but also for engineers and users of lithium-ion batteries which are found in virtually every type of portable electronic product.

Lithium-Ion Batteries and Solar Cells - Ming-Fa Lin 2021-01-20
Lithium-Ion Batteries and Solar Cells: Physical, Chemical, and Materials Properties presents a thorough investigation of diverse physical, chemical, and materials properties and special functionalities of lithium-ion batteries and solar cells. It covers theoretical simulations and high-resolution experimental measurements that promote a full understanding of the basic science to develop excellent device performance. Employs first-principles and the machine learning method to fully explore the rich and unique phenomena of cathode, anode, and electrolyte (solid and liquid states) in lithium-ion batteries Develops distinct experimental methods and techniques to enhance the performance of lithium-ion batteries and solar cells Reviews syntheses, fabrication, and measurements Discusses open issues, challenges, and potential commercial applications This book is aimed at materials scientists, chemical engineers, and electrical engineers developing enhanced batteries and solar cells for peak performance.

Transit Bus Applications of Lithium Ion Batteries - U.S. Department of Transportation-fta 2012-12-31

This report provides an overview of diverse transit bus applications of advanced Lithium Ion Batteries (LIBs). The report highlights and illustrates several FTA programs that fostered the successful development, demonstration, and deployment of fuel-efficient hybrid-electric and electric drive transit buses in operational urban fleets over the last decade. The focus is on recent progress in the rechargeable energy storage systems (RESS) that successfully integrated the lighter, more compact LIBs with higher energy density and capacity in a broad range of power and propulsion configurations for urban transit bus fleets. Improvements in fuel efficiency and environmental performance of succeeding generations as well as LIB-related safety, cost, reliability, availability, and maintainability challenges are discussed in context, including recent recalls due to LIB safety issues. Progress in and prospects for future LIB improvements and remaining bus application challenges are also discussed.

Emergency Response Guidebook - U.S. Department of Transportation 2013-06-03

Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

Solid Electrolytes for Advanced Applications - Ramaswamy Murugan 2019-12-11

This book highlights the state of the art in solid electrolytes, with particular emphasis on lithium garnets, electrolyte-electrode interfaces and all-solid-state batteries based on lithium garnets. Written by an international group of renowned experts, the book addresses how garnet-type solid electrolytes are contributing to the development of safe high energy density Li batteries. Unlike the flammable organic liquid electrolyte used in existing rechargeable Li batteries, garnet-type solid electrolytes are intrinsically chemically stable in contact with metallic lithium and potential positive electrodes, while offering reasonable Li conductivity. The book's respective chapters cover a broad spectrum of topics related to solid electrolytes, including interfacial engineering to resolve the electrolyte-electrode interfaces, the latest developments in the processing of thin and ultrathin lithium garnet membranes, and fabrication strategies for the high-performance solid-state batteries. This highly informative and intriguing book will appeal to postgraduate students and researchers at academic and industrial laboratories with an interest in the advancement of high energy-density lithium metal batteries

Recommendations on the Transport of Dangerous Goods: Model ... -

Lithium-Ion Battery Chemistries - John T. Warner 2019-05-10

Lithium-Ion Battery Chemistries: A Primer offers a simple description on how different lithium-ion battery chemistries work, along with their differences. It includes a refresher on the basics of electrochemistry and thermodynamics, and an understanding of the fundamental processes that occur in the lithium-ion battery. Furthermore, it reviews each of the major chemistries that are in use today, including Lithium-Iron Phosphate (LFP), Lithium-Cobalt Oxide (LCO), Lithium Manganese Oxide (LMO), Lithium-Nickel Manganese Cobalt (NMC), Lithium-Nickel Cobalt Aluminium (NCA), and Lithium-Titanate Oxide (LTO) and outlines the different types of anodes, including carbon (graphite, hard carbon, soft carbon, graphene), silicon, and tin. In addition, the book offers performance comparisons of different chemistries to help users select the right battery for the right application and provides explanations on why different chemistries have different performances and capabilities. Finally, it offers a brief look at emerging and beyond-lithium chemistries, including lithium-air, zinc-air, aluminum air, solid-state, lithium-sulfur, lithium-glass, and lithium-metal. Presents a refresher on the basics of electrochemistry and thermodynamics, along with simple graphics and images of complex concepts Provides a clear-and-concise description of lithium-ion chemistries and how they operate Covers the fundamental processes that occur in lithium-ion batteries Includes a detailed review of current and future chemistries

Lithium Ion Batteries: Basics and Applications - Reims Korthauer 2018-08-07

The handbook focuses on a complete outline of lithium-ion batteries. Just before starting with an exposition of the fundamentals of this system, the book gives a short explanation of the newest cell generation. The most important elements are described as negative / positive electrode materials, electrolytes, seals and separators. The battery disconnect unit and the battery management system are important parts of modern lithium-ion batteries. An economical, faultless and efficient battery production is a must today and is represented with one chapter in the handbook. Cross-cutting issues like electrical, chemical, functional safety are further topics. Last but not least standards and transportation themes are the final chapters of the handbook. The different topics of the handbook provide a good knowledge base not only for those working daily on electrochemical energy storage, but also to scientists, engineers and students concerned in modern battery systems.

Air Navigation Law - Ruwantissa Abeyratne 2012-03-14

The aviation community, in which the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) and the Civil Air Navigation Services Organization (CANSO) play leading roles, is hard at work in bringing aviation into the 21st Century. In doing so, the United States and Europe have taken proactive steps forward in introducing modernization, particularly in moving towards more efficient air traffic management systems within NextGen and SESAR. Elsewhere, in the fields of personnel licensing, rules of the air, accident investigation and aeronautical charts and information, significant strides are being made in moving from mere regulation to implementation and assistance calculated to make all ICAO member States self sufficient in international civil aviation. However, these objectives can be achieved only if the aviation industry has a sustained understanding of the legal

and regulatory principles applying to the various areas of air navigation. This book provides that discussion. Some of the subjects discussed in this book are: sovereignty in airspace; flight information and air defence identification zones; rules of the air; personnel licensing; meteorological services; operations of aircraft; air traffic services; accident and incident investigation; aerodromes; efficiency aspects of aviation and environmental protection; aeronautical charts and information; the carriage of dangerous goods; and NextGen and SESAR. Except for NextGen and SESAR, these subjects form the titles of the Annexes to the Chicago Convention that particularly involve the rights and liabilities of the key players involved in air navigation.

Carriage of dangerous goods Great Britain: Department for Transport 2012-04-16

This document is issued in accordance with regulation 11(3) of the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 as amended (CDG 2009); regulation 8(3) of the Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations (Northern Ireland) 2010 as amended (CDG 2010) and regulation 12(3) of the Carriage of Explosives Regulations (Northern Ireland) 2010 (CE 2010). It sets out the circumstances under which particular types of carriage or carriage in particular circumstances are exempt from requirements and prohibitions arising under those regulations. It also provides for alternative requirements and prohibitions to apply.

Hazardous Chemicals - Herbert F. Bender 2007-02-27

This practice-oriented guide covers the handling and use of hazardous chemicals at the workplace, including labelling and storage, transportation, occupational safety and proper registration with the European authorities. Current European Union legislation and directives are cited throughout the text, making this a valuable reference for companies and institutions both inside and outside of the EU common market.

Emergency response guidance for aircraft incidents involving dangerous goods - International Civil Aviation Organization 2006-12-18

This document provides guidance to States and operators for developing procedures and policies for dealing with dangerous goods incidents on board aircraft. It contains general information on the factors that may need to be considered when dealing with any dangerous goods incident and provides specific emergency response drill codes for each item listed in the Technical Instructions for the Safe Transport of Dangerous Goods by Air

Manual of Tests and Criteria - United Nations 2020-01-06

The Manual of Tests and Criteria contains criteria, test methods and procedures to be used for classification of dangerous goods according to the provisions of Parts 2 and 3 of the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations, as well as of chemicals presenting physical hazards according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). As a consequence, it supplements also national or international regulations which are derived from the United Nations Recommendations on the Transport of Dangerous Goods or the GHS. At its ninth session (7 December 2018), the Committee adopted a set of amendments to the sixth revised edition of the Manual as amended by Amendment 1. This seventh revised edition takes account of these amendments. In addition, noting that the work to facilitate the use of the Manual in the context of the GHS had been completed, the Committee considered that the reference to the "Recommendations on the Transport of Dangerous Goods" in the title of the Manual was no longer appropriate, and decided that from now on, the Manual should be entitled "Manual of Tests and Criteria".

Risk Concepts in Dangerous Goods Transportation Regulation United States. National Transportation Safety Board 1971

Behaviour of Lithium-Ion Batteries in Electric Vehicles - Gianfranco Pistoia 2018-02-10

This book surveys state-of-the-art research on and developments in lithium-ion batteries for hybrid and electric vehicles. It summarizes their features in terms of performance, cost, service life, management, charging facilities, and safety. Vehicle electrification is now commonly accepted as a means of reducing fossil-fuels consumption and air pollution. At present, every electric vehicle on the road is powered by a lithium-ion battery. Currently, batteries based on lithium-ion technology are ranked first in terms of performance, reliability and safety. Though other systems, e.g., metal-air, lithium-sulphur, solid state, and aluminium-ion, are now being investigated, the lithium-ion system is

likely to dominate for at least the next decade – which is why several manufacturers, e.g., Toyota, Nissan and Tesla, are chiefly focusing on this technology. Providing comprehensive information on lithium-ion batteries, the book includes contributions by the world's leading experts on Li-ion batteries and vehicles.

Dangerous Goods Regulations - International Air Transport Association 1988

Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID) 1996

Batteries in a Portable World - Isidor Buchmann 1997

Packaging for Mailing - United States Postal Service 1986

Bitemporal Data Tom Johnston 2014-08-19

Bitemporal data has always been important. But it was not until 2011 that the ISO released a SQL standard that supported it. Currently, among major DBMS vendors, Oracle, IBM and Teradata now provide at least some bitemporal functionality in their flagship products. But to use these products effectively, someone in your IT organization needs to know more than how to code bitemporal SQL statements. Perhaps, in your organization, that person is you. To correctly interpret business requests for temporal data, to correctly specify requirements to your IT development staff, and to correctly design bitemporal databases and applications, someone in your enterprise needs a deep understanding of both the theory and the practice of managing bitemporal data. Someone also needs to understand what the future may bring in the way of additional temporal functionality, so their enterprise can plan for it. Perhaps, in your organization, that person is you. This is the book that will show the do-it-yourself IT professional how to design and build bitemporal databases and how to write bitemporal transactions and queries, and will show those who will direct the use of vendor-provided bitemporal DBMSs exactly what is going on "under the covers" of that software. Explains the business value of bitemporal data in terms of the information that can be provided by bitemporal tables and not by any other form of temporal data, including history tables, version tables, snapshot tables, or slowly-changing dimensions. Provides an integrated account of the mathematics, logic, ontology and semantics of relational theory and relational databases, in terms of which current relational theory and practice can be seen as unnecessarily constrained to the management of nontemporal and incompletely temporal data. Explains how bitemporal tables can provide the time-variance and nonvolatility hitherto lacking in Inmon historical data warehouses. Explains how bitemporal dimensions can replace slowly-changing dimensions in Kimball star schemas, and why they should do so. Describes several extensions to the current theory and practice of bitemporal data, including the use of episodes, "whenever" temporal transactions and queries, and future transaction time. Points out a basic error in the ISO's bitemporal SQL standard, and warns practitioners against the use of that faulty functionality. Recommends six extensions to the ISO standard which will increase the business value of bitemporal data. Points towards a tritemporal future for bitemporal data, in which an Aristotelian ontology and a speech-act semantics support the direct management of the statements inscribed in the rows of relational tables, and add the ability to track the provenance of database content to existing bitemporal databases. This book also provides the background needed to become a business ontologist, and explains why an IT data management person, deeply familiar with corporate databases, is best suited to play that role. Perhaps, in your organization, that person is you.

Recommendations on the Transport of Dangerous Goods United Nations. Committee of Experts on the Transport of Dangerous Goods (1957-) 2002

This document is adopted from the Recommendation on the Transport of Dangerous Goods: Manual of Tests and Criteria. It is the first amendment of the third revised edition concerning new provisions for the classification criteria and testing procedures for lithium batteries.

2016 Emergency Response Guidebook - Department of Transportation 2018-04-24

The ERG is the ideal guide to help when responding to transportation emergencies involving hazardous materials. It is a must-have for everyone who handles and transports dangerous goods and hazmat. This guide helps your company comply with the DOT 49 CFR 172.602 requirement that hazmat shipments be accompanied with emergency response information. The Emergency Response Guidebook is updated

every 4 years - Don't be caught with the outdated 2012 ERG

IMDG Code - International Maritime Organization 2021-01-11

The International Maritime Dangerous Goods Code is the standard guide to all aspects of handling dangerous goods and marine pollutants in sea transport. The Code lays down basic principles: detailed recommendations for individual substances, materials and articles, and a number of recommendations for good operational practice, including advice on terminology, packing, labelling, stowage, segregation and handling, and emergency response action. The Code has undergone many changes over the years, in both format and content, in order to keep up with the rapid expansion of the shipping industry. Amendment 40-20 includes revisions to various sections of the Code and to transport requirements for specific substances. It is mandatory as from 1 June 2022 but may be applied by Administrations in whole or in part on a voluntary basis from 1 January 2021

Code of Practice for Electrical Energy Storage Systems - Institution of Engineering and Technology 2021-01-27

This Code of Practice is an excellent reference for practitioners on the safe, effective and competent application of electrical energy storage systems. It provides detailed information on the specification, design, installation, commissioning, operation and maintenance of an electrical energy storage system.

Technical Instructions for the Safe Transport of Dangerous Goods by Air, 1986 - Dangerous Goods Panel of Air Navigations 1985

Mapping of lithium ion batteries for vehicles: A study of their future in Nordic countries - Dahllöf, Lisbeth 2019-10-24

The number of electric vehicles (cars, buses, e-bikes, electric scooters and electric motorcycles) sold in the Nordic countries is currently increasing quickly. That means that more electricity is used for driving, and also that more of some important metals are being used than earlier. This report regards the fate of the lithium-ion batteries used in vehicles in the Nordic countries. Currently the "Battery Directive" (EC, 2006) which is a producer's responsibility directive, is under revision and this study is a knowledge base intended for use by the Nordic Environmental Protection Agencies for their referral response in the revision process. This report focuses on the aspect of metal resources, but it does not elaborate on a broader range of environmental impacts, as these were outside the scope of this study.

Lithium-Ion Batteries - Yuping Wu 2015-04-24

Lithium-Ion Batteries: Fundamentals and Applications offers a comprehensive treatment of the principles, background, design, production, and use of lithium-ion batteries. Based on a solid foundation

of long-term research work, this authoritative monograph: Introduces the underlying theory and history of lithium-ion batteries Describes the key components of lithium-ion batteries, including negative and positive electrode materials, electrolytes, and separators Discusses electronic conductive agents, binders, solvents for slurry preparation, positive thermal coefficient (PTC) materials, current collectors, and cases Examines the assembly processes and electrochemical performance of lithium-ion batteries Explores applications in power tools, electric vehicles, aerospace, and more Lithium-Ion Batteries: Fundamentals and Applications delivers a systematic overview of lithium-ion batteries, from physical properties to manufacturing technologies. The book also supplies valuable insight into potential growth opportunities in this exciting market.

Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data - 2003

CI/ASCE Standard 38-02 presents a credible system for classifying the quality of utility location information that is placed in design plans. The Standard addresses issues such as: how utility information can be obtained, what technologies are available to obtain that information; how that information can be conveyed to the information users; who should be responsible for typical collection and depiction tasks; what factors determine which utility quality level attribute to assign to data; and what the relative costs and benefits of the various quality levels are. Used as a reference or as part of a specification, the Standard will assist engineers, project and utility owners, and constructors in developing strategies to reduce risk by improving the reliability of information on existing subsurface utilities in a defined manner.

Recycling of Lithium-Ion Batteries - Arno Kwade 2017-12-12

This book addresses recycling technologies for many of the valuable and scarce materials from spent lithium-ion batteries. A successful transition to electric mobility will result in large volumes of these. The book discusses engineering issues in the entire process chain from disassembly over mechanical conditioning to chemical treatment. A framework for environmental and economic evaluation is presented and recommendations for researchers as well as for potential operators are derived.

The Military Guide to Financial Independence and Retirement - Doug Nordman 2011-06

"Filled with examples, checklists, websites, and a rich collection of appendices that deal with inflation, multiple income streams, and the value of a military pension, this book is essential reading for anyone contemplating retiring from the military"--From publisher's website.