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Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Electrical Submersible Pumps Manual: Design, Operations and Maintenance, Second Edition continues to deliver the information needed with updated developments, technology and operational case studies. New content on gas handlers, permanent magnet motors, and newly designed stage geometries are all included. Flowing from basic to intermediate to special applications, particularly for harsh environments, this reference also includes workshop materials and class-style examples for trainers to utilize for the newly hired production engineer. Other updates include novel pump stage designs, high-performance motors and temperature problems and solutions specific for high temperature wells. Effective and reliable when used properly, electrical submersible pumps (ESPs) can be expensive to purchase and maintain. Selecting the correct pump and operating it properly are essential for consistent flow from production wells. Despite this, there is not a dedicated go-to reference to train personnel and engineers. This book keeps engineers and managers involved in ESPs knowledgeable and up-to-date on this advantageous equipment utilized for the oil and gas industry. Includes updates such as new classroom examples for training and more operational information, including production control Features a rewritten section on failures and troubleshooting Covers the latest equipment, developments and maintenance needed Serves as a useful daily reference for both practicing and newly hired engineers Explores basic electrical, hydraulics and motors, as well as more advanced equipment specific to special conditions such as production of deviated and high temperature wells Seeing is Understanding. The first VISUAL guide to marine diesel systems on recreational boats. Step-by-step instructions in clear, simple drawings explain how to maintain, winterize and recommission all parts of the system - fuel deck fill - engine - batteries - transmission - stern gland - propeller. Book one of a new series. Canadian author is a sailor and marine mechanic cruising aboard his 36-foot steel-hulled Chevrier sloop. Illustrations: 300+ drawings Pages: 222 pages Published: 2017 Format: softcover Category: Inboards, Gas & Diesel

Amber is the collective name for a suite of programs that allow users to carry out molecular dynamics simulations, particularly on biomolecules. None of the individual programs carries this name, but the various parts work reasonably well together, and provide a powerful framework for many common calculations. The term Amber is also used to refer to the empirical force fields that are implemented here. It should be recognized, however, that the code and force field are separate: several other computer packages have implemented the Amber force fields, and other force fields can be implemented with the Amber programs. Further, the force fields are in the public domain, whereas the codes are distributed under a license agreement. The Amber software suite is divided into two parts: AmberTools21, a collection of freely available programs mostly under the GPL license, and Amber20, which is centered around the pmemd simulation program, and which continues to be licensed as before, under a

more restrictive license. Amber20 represents a significant change from the most recent previous version, Amber18. (We have moved to numbering Amber releases by the last two digits of the calendar year, so there are no odd-numbered versions.) Please see <https://ambermd.org> for an overview of the most important changes. AmberTools is a set of programs for biomolecular simulation and analysis. They are designed to work well with each other, and with the “regular” Amber suite of programs. You can perform many simulation tasks with AmberTools, and you can do more extensive simulations with the combination of AmberTools and Amber itself. Most components of AmberTools are released under the GNU General Public License (GPL). A few components are in the public domain or have other open-source licenses. See the README file for more information.

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