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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. The technology of the
next few decades could
possibly allow us to explore
with robotic probes the closest
stars outside our Solar System,
and maybe even observe some
of the recently discovered
planets circling these stars.
This book looks at the reasons
for exploring our stellar
neighbors and at the

technologies we are developing
to build space probes that can
traverse the enormous
distances between the stars. In
order to reach the nearest
stars, we must first develop a
propulsion technology that
would take our robotic probes
there in a reasonable time.
Such propulsion technology has
radically different
requirements from
conventional chemical rockets,
because of the enormous
distances that must be crossed.
Surprisingly, many propulsion
schemes for interstellar travel
have been suggested and await
only practical engineering
solutions and the political will
to make them a reality. This is
a result of the tremendous
advances in astrophysics that
have been made in recent
decades and the perseverance
and imagination of tenacious
theoretical physicists. This
book explores these different
propulsion schemes - all based
on current physics - and the
challenges they present to
physicists, engineers, and
space exploration
entrepreneurs. This book will
be helpful to anyone who really
wants to understand the
principles behind and likely
future course of interstellar
travel and who wants to
recognizes the distinctions
between pure fantasy (such as
Star Trek's 'warp drive') and
methods that are grounded in
real physics and offer practical
technological solutions for
exploring the stars in the

decades to come. How to Build Brick Cars is a collection of Lego designs that provide instruction on building contemporary and classic sports cars entirely out of the world's favorite building block. "History of the American society of mechanical engineers. Preliminary report of the committee on Society history," issued from time to time, beginning with v. 30, Feb. 1908. Since its first appearance in 1950, Pounder's Marine Diesel Engines has served seagoing engineers, students of the Certificates of Competency examinations and the marine engineering industry throughout the world. Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine. This eighth edition retains the directness of approach and attention to essential detail that characterized its predecessors. There are new chapters on monitoring control systems and governor systems, gas turbines and safety aspects of engine operation. Important developments such as the

latest diesel-electric LNG carriers that will soon be in operation. After experience as a seagoing engineer with the British India Steam Navigation Company, Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers. He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping, shipbuilding and marine engineering. He is currently technical editor of Seatrade, a contributing editor to Speed at Sea, Shipping World and Shipbuilder and a technical press consultant to Rolls-Royce Commercial Marine. * Designed to reflect the recent changes to SQA/Marine and Coastguard Agency Certificate of Competency exams. Careful organisation of the new edition enables readers to access the information they require * Brand new chapters focus on monitoring control systems and governor systems, gas turbines and safety aspects of engine operation * High quality, clearly labelled illustrations

and figures Built with twin, underwing engines, tricycle landing gear and shoulder-mounted wings, the Grumman F7F Tigercat was an unusual looking, all-metal fighter. It was also one of the highest-performance piston-engined fighters of all time. Originally designed as a carrier-based aircraft, the F7F failed its initial trials, and ended up flying primarily as a land-based attack aircraft for the Marines. Equipped with radar and a second seat for an operator, the Tigercat also flew as a night-fighter and reconnaissance platform. Although it was introduced in 1944, the Tigercat never saw action in WWII, and had a limited role in Korea. The F7F found a new role in non-military use, flying as a fire-fighting aircraft and camera ship for Hollywood in the 1970s. Originally printed by the U.S. Navy, this F7F Flight Operating Manual taught pilots everything they needed to know before entering the cockpit. This facsimile has been reformatted. Care has been taken to preserve the integrity of the text.