

E. Laju Pemakaian Bahan Bakar Spesifik

Laju pemakaian bahan bakar spesifik atau *specific fuel consumption* (SFC) adalah jumlah bahan bakar (kg) per waktunya untuk menghasilkan daya sebesar 1 Hp. Jadi SFC adalah ukuran ekonomi pemakaian bahan bakar. Perhitungan untuk mengetahui SFC adalah:

$$SFC = \frac{\dot{G}_f}{N_e}$$
$$\eta_e = \frac{N_e}{\dot{G}_f \times Q_e}$$
$$\eta_e \times Q_e = \frac{N_e}{\dot{G}_f}$$
$$\frac{1}{\eta_e \times Q_e} = \frac{\dot{G}_f}{N_e} = SFC$$

F. Perhitungan Performasi Motor Bakar Torak

Soal

- Sebuah mesin bensin 4 tak 6 silinder diujikan untuk mengetahui daya indikatornya, volume langkah 1000 cm^3 , putaran mesin diuji pada 2000 rpm, dari hasil pengujian didapatkan tekanan rata-rata indikator 10 kg/cm^2 berapakah daya indikatornya ?

Jawab.

Diketahui

$$n = 2500 \text{ (rpm)} = 2500/60 \text{ rps}$$

$$a = 1/2 \text{ untuk 4 langkah}$$

$$z = 6 \text{ silinder}$$

$$Vd = 1000 \text{ cm}^3$$

$$P_i = 10 \text{ kg/cm}^2$$

$$N_e = \frac{P_i \times V_d \times n \times a}{60 \times 100} z \text{ mkg/s}$$

$$N_e = \frac{P_{rata-rata} \times V_d \times n \times a}{60 \times 100 \times 75} z \text{ Hp} [1 \text{ Hp} = 75 \text{ kgm/s}]$$

$$N_e = \frac{10 \times 1000 \times 2500 \times 0,5 \times 6}{4500000} = 166,67 \text{ Hp}$$

Rumus Perhitungan Pemakaian Bahan Bakar Kapal

**Hadi Prasutiyon,Arif Winarno,Urip
Prayogi**

Rumus Perhitungan Pemakaian Bahan Bakar Kapal :

Ilmu Terapan Engineer Kapal ,2025-03-11 JUDUL BUKU Ilmu Terapan Engineer Kapal PENULIS Budi Utomo S M M MARE NO ISBN 978 623 421 728 5 PENERBIT Guepedia TAHUN TERBIT Maret 2025 JENIS BUKU Buku Teknik Pembelajaran Non Fiksi KONDISI BUKU Buku Baru Buku Original Asli Langsung dari Penerbitnya Sinopsis Ilmu Terapan Engineer Kapal merupakan kumpulan ilmu pengetahuan dan pengalaman kerja penulis Isi buku yang berbobot dengan narasi sederhana dan mudah dipahami yang tersusun mulai dari penjabaran dasar teori cara kerja permesinan serta contoh troubleshooting permesinan diatas kapal Hal yang sangat menarik adalah adanya artikel Quick Share yang berisikan tentang share ilmu pengetahuan yang dikemas dalam kalimat yang singkat padat jelas dan mudah dipahami Sebagai bekal untuk memudahkan para engineer melakukan perencanaan pelayaran menuju pelabuhan tujuan buku ini juga dilengkapi dengan rumus dan contoh perhitungan pemakaian bahan bakar pada putaran mesin yang berbeda displacement yang berbeda serta perhitungan bahan bakar yang lainnya Selain pembahasan dan penjabaran hal hal yang sifatnya teknis tentang permesinan diatas kapal buku ini juga dilengkapi dengan pengetahuan umum non teknis tentang pengetahuan ISM Code dasar ke nautika an pengetahuan dasar tentang safety on board serta dasar teori tentang salvage penyelamatan kapal Lengkap untuk melengkapi hard skills dan soft skills para engineer diatas kapal www guepedia com Email guepedia gmail com WA di 081287602508

Happy shopping reading Enjoy your day guys **Manajemen Bisnis Transportasi Laut, Carter, dan Klaim - Rajawali Pers** David A. Lasse, Dr. Drs. S.H., M.M., B.Sc., 2017-07-21 Perubahan konstelasi pola perdagangan internasional berimplikasi terhadap manajemen transportasi laut Perusahaan pelayaran yang dulu secara tradisional menyediakan jasa pengangkutan port to port ekspansi menjadi penyedia jasa logistik door to door services Penyedia jasa transportasi laut yang telah menjadi pusat jasa logistik ber Neil Ina ye Ta Ia An Sel laN aah Ih kN Ika Teki ag dolan Mali ali 2t downstream sehingga terbentuk transport and logistics chains Buku ini menguraikan aspek manajemen organisasi dan rencana strategis perusahaan pelayaran diawali dengan hubungan korelasional antara perdagangan pelayaran penyediaan moda angkutan laut yang berkembang dinamis pengadaan kapal melalui charter pelayanan pelanggan berupa penyelesaian claim dan diakhiri dengan strategi pembangunan transportasi laut nasional Sistematika mencakup enam aspek pokok yakni a Bab 1 Perdagangan internasional dan sistem transportasi b Bab bab 2 3 dan 4 Pelayaran niaga mengelola kapal muatan dan pengawakan c Bab 5 Pelabuhan dan terminal infrastruktur strategis d Bab 6 Tanggung jawab Carrier e Bab 7 dan 8 Menyajikan seluk beluk carter kapal dan klaim dan f Bab 9 dan 10 Pemikiran bagaimana visi organisasi pelayaran menggambarkan kejayaan masa mendatang Penulis yakin bahwa para pelaku bisnis yang telah memahami uraian dalam buku ini akan mampu menyelesaikan sedikit demi sedikit masalah bisnis yang dihadapinya utamanya mengatasi berbagai jenis kelemahan pada lingkungan internal perusahaan sambil memanfaatkan peluang terbuka untuk pengembangan bisnis pelayaran niaga bahkan ekspansi melampaui predikat sebagai bahariwan platinum di negeri sendiri Perancangan Sistem Penggerak Hybrid untuk

Kapal Ikan Purse Seine Hadi Prasutiyon,Erik Sugianto,Dwisetiono,Didik Hardianto,Frengki Mohamad Felayati,2024-07-01

Buku Perancangan Sistem Penggerak Hybrid untuk Kapal Ikan Purse ini terdiri dari tujuh bab yakni Bab 1

Pendahuluan Bab 2 Pengantar Sistem Penggerak Bab 3 Tinjauan Pustaka Sistem Penggerak Hybrid Bab 4 Metode

Perancangan Bab 5 Perhitungan dan Pembahasan Kapal Ikan Type A 6 Perhitungan dan Pembahasan Kapal Ikan Type B dan Bab 7 Penutup Dari ketujuh bab tersebut Bab 5 dan Bab 6 memperoleh porsi yang lebih besar mengingat relevansinya yang sangat kuat dengan judul buku Bab 1 Bab 2 Bab 3 Bab 4 dan Bab 7 masing masing menguraikan mulai dari latar belakang perlunya sistem penggerak model hybrid dengan referensi sistem penggerak kapal sejenis yang sudah diterapkan dan yang banyak digunakan di kapal

METODE PRAKTIS DI DALAM MERANCANG SISTEM DAN PERMESINAN DI KAPAL

Dr. Ir. AGOES SANTOSO, MSc., MPhil., CEng., FIMarEST., MRINA,Dr.Eng. Muhamad Badrus Zaman, ST., MT., Prof. Semin , ST., MT., PhD., MIMarEST,2021-09-28 Buku ini dikemas sepraktis mungkin agar para perancang kapal yang tidak berkuliah langsung di departemen perkapanalan pun dapat dengan mudah memahami dan mempraktekkan apa yang ada di dalam buku ini Misalnya akademisi dan praktisi desain dari desain produk jurusan perikanan tangkap akademi pelayaran maupun departemen teknik yang ada di jajaran militer

Ilmu Pelayaran Astronomi untuk ANT-III dan IV Cahya Fajar Budi

Hartanto, M.Mar., M.Si,Agus Pamungkas, A.Md, Ilmu pelayaran astronomi merupakan ilmu pelayaran yang digunakan pada masa di mana perkembangan teknologi belum secanggih saat ini Namun ilmu pelayaran astronomi tetap harus dikuasai oleh para navigator sehingga dalam situasi darurat saat peralatan navigasi elektronik mengalami gangguan dan tidak dapat digunakan penentuan posisi kapal tetap dapat dilaksanakan dengan bantuan benda angkasa Buku ini menjadi panduan dalam hal bernavigasi secara astronomis Buku ini sesuai untuk digunakan sebagai buku ajar pada mata kuliah Ilmu Pelayaran Astronomi di level Ahli Nautika Tingkat III dan IV sebagai tambahan buku referensi di lingkup pendidikan kepelautan yang masih sangat terbatas

MERANCANG SISTEM PERMESINAN KAPAL PELAYARAN RAKYAT BERBAHAN BAKAR

B30 Hadi Prasutiyon,Arif Winarno,Urip Prayogi,2021-06-17 Buku ini berisi materi materi yang terkait dengan perencanaan sistem permesinan kapal berikut analisa biaya yang diperlukan Hal ini sangat diperlukan oleh mahasiswa yang ada pada Jurusan Prodi Sistem Perkapalan untuk Mata Kuliah Mesin Penggerak Kapal Permesinan Bantu bahkan bisa dipakai untuk dasar pengetahuan pada mata kuliah Tugas Rancang Buku semacam ini yang dipublikasikan masih belum banyak terutama yang berbahasa Indonesia Sehingga kehadiran buku ini diharapkan dapat memperkaya khasanah pengetahuan khususnya di bidang pengetahuan sistem permesinan kapal

Redesign Sistem Pendorongan Kapal Laut: Efisiensi Energi dan Reduksi Emisi melalui Teknologi IFEP dan VSD Abdul Rahman,Antariksa,Bambang Semedi,Slamet Wahyudi,2025-07-15 Efisiensi energi dan pengurangan emisi kini menjadi isu sentral dalam dunia perkapalan modern Sistem pendorongan kapal tidak lagi hanya dinilai dari kekuatan dan keandalannya tetapi juga dari seberapa hemat energi dan ramah lingkungan teknologi yang digunakan Dalam konteks inilah Integrated Fully Electric Propulsion IFEP dan Variable Speed Drive VSD hadir sebagai

jawaban atas kebutuhan transformasi sistem propulsi kapal laut Dengan pendekatan yang sistematis dan berbasis perhitungan teknis pemanfaatan motor listrik tipe azipod serta pengaturan beban dinamis melalui VSD mampu meningkatkan efisiensi operasional kapal secara signifikan sekaligus menekan konsumsi bahan bakar dan emisi gas buang Buku ini mengajak pembaca untuk memahami lebih dalam proses perancangan ulang sistem pendorongan kapal dari perspektif teknis dan strategis Mulai dari analisis kebutuhan daya perhitungan tahanan kapal penataan ulang ruang mesin hingga evaluasi konsumsi energi seluruh bahasan dirancang untuk memberikan panduan praktis dan relevan dalam era transisi energi **Kamus istilah perhubungan** ,2006 Indonesian dictionary of transportation terms *Manajemen Operasional Pelabuhan* Ashury Djamaruddin,2022-11-29 Penanganan kargo dan pelabuhan modern mencakup berbagai perhatian dalam penanganan barang di pelabuhan kontemporer Buku ini merinci fungsi pelabuhan beserta dampak revolusi senyap yang terjadi di pelabuhan pelabuhan besar di seluruh dunia Teks pertama mencakup pelabuhan itu sendiri seperti fungsinya jenis hierarki pelabuhan dan landasan operasional Selanjutnya buku ini juga membahas dasar dasar pengoperasian pelabuhan kemudian dilanjutkan dengan penanganan muatan kargo dan kapal Selain itu mengupas juga masalah peralatan dan kinerja di terminal pelabuhan bagian bab akhir adalah mengupas tentang operasional di berbagai terminal di pelabuhan Terminal Curah Cair dan di Terminal Petikemas Terminal Curah Kering Terminal Curah Cair dan di Terminal Ro ro Bab terakhir dari buku ini membahas dukungan teknologi informasi dalam mendukung operasional di pelabuhan Buku ini akan sangat bermanfaat bagi individu yang terlibat dalam bidang pelabuhan industri logistik ekspedisi dan transportasi kapal dan sangat cocok untuk dijadikan sebagai salah satu buku referensi pada mata kuliah Manajemen Operasional Pelabuhan dan Perencanaan Pelabuhan **DASAR DASAR BUDIDAYA PERIKANAN** Mochammad Farchan,Mugi Mulyono,2011-02-01 Budidaya Perikanan adalah suatu bentuk budidaya flora dan fauna perairan baik itu perairan umum payau dan laut Buku Dasar Dasar Budidaya Perikanan buku ini ditulis berdasarkan pengalaman Penulis Buku ini sangat cocok sebagai panduan belajar penuntun bagi mahasiswa khususnya pada program studi akuakultur serta sebagai bahan refensi secara umum untuk masyarakat perikanan budidaya Pertambahan penduduk dunia yang semakin naik sehingga kebutuhan akan protein hewani melalui ikan akan semakin naik Pada sisi lain sumber daya alam terbatas sehingga kebutuhan produk perikanan tidak dapat mengandalkan dari alam Untuk memenuhi kebutuhan ini maka sector budidaya perikanan memegang peranan penting dan harus mendapat perhatian serius Untuk dapat mencapai sesuai dengan yang diharapkan diperlukan teknologi modal dan ketrampilan sumberdaya manusia yang dapat menguasainya Untuk itu pada tahap awal dalam mengenal budidaya perikanan dapat dimulai dengan mengenal dasar dasar budidaya perikanan **Fuel Monitoring System Pada Kapal** Muhammad Arif Budiyanto, Buku Teknik Perkapalan yang berjudul Fuel Monitoring System Pada Kapal merupakan karya dari Muhammad Arif Budiyanto Fuel Monitoring System FMS adalah sistem yang digunakan untuk memantau dan mengelola konsumsi bahan bakar pada kapal Peraturan terkait dengan Fuel Monitoring System tergantung pada yurisdiksi dan organisasi yang

mengatur keamanan pelayaran

The Enigmatic Realm of **Rumus Perhitungan Pemakaian Bahan Bakar Kapal** : Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Rumus Perhitungan Pemakaian Bahan Bakar Kapal** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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