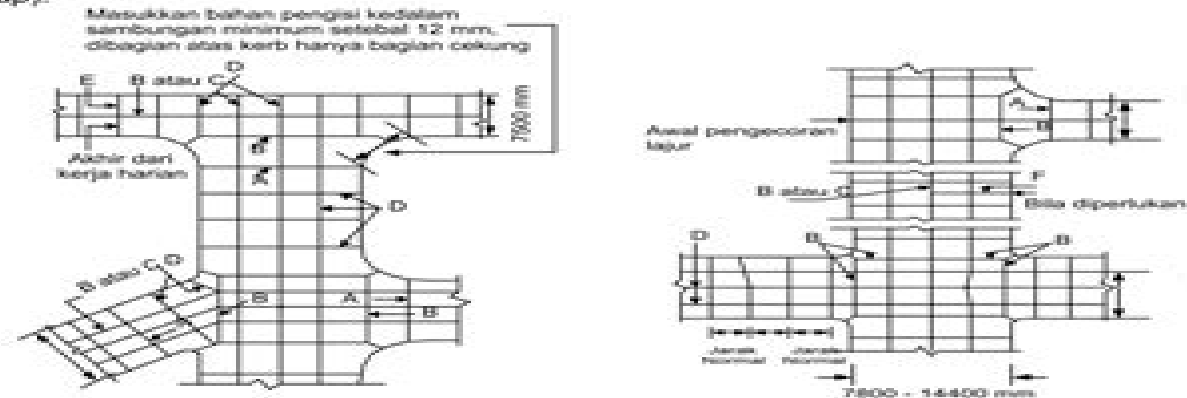


5.3.6.9 Penutup sambungan

Penutup sambungan dimaksudkan untuk mencegah masuknya air dan atau benda lain ke dalam sambungan perkerasan. Benda-benda lain yang masuk ke dalam sambungan dapat menyebabkan kerusakan berupa gompal dan atau pelat beton yang saling menekan ke atas (*blow up*).



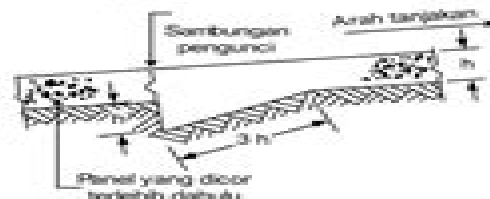
Gambar 15 Detail Potongan melintang sambungan perkerasan

Keterangan Gambar 14 dan 15 :

- A = Sambungan isolasi
- B = Sambungan pelaksanaan memanjang
- C = Sambungan susut memanjang
- D = Sambungan susut melintang
- E = Sambungan susut melintang yang direncanakan
- F = Sambungan pelaksanaan melintang yang tidak direncanakan

5.4 Perkerasan beton semen untuk kelandakan yang curam

Untuk jalan dengan kemiringan memanjang yang lebih besar dari 3%, perencanaan serta prosedur mengacu pada Butir 6 dan harus ditambah dengan angker panel (*panel anchored*) dan angker blok (*anchor block*). Jalan dengan kondisi ini harus dilengkapi dengan angker yang melintang untuk keseluruhan lebar pelat sebagaimana diuraikan pada Tabel 6 dan diperlihatkan pada Gambar 16 dan 17.



Gambar 16 Angker panel



Gambar 17 Angker blok

Perkerasan Beton Semen

Hussin A.Rothana



Perkerasan Beton Semen:

Analytical Hierarchy Process (AHP) : Metode Penentuan Prioritas Pemilihan Jenis Perkerasan Jalan Dr. Ir. Arief Setiawan, ST, MT, IPM, ASEAN Eng., Ketut Gendroyono, ST., MT., Dr. Ir. Tutang Muhtar K, ST., M. Si., Judul Analytical Hierarchy Process AHP Metode Penentuan Prioritas Pemilihan Jenis Perkerasan Jalan Penulis Dr Ir Arief Setiawan ST MT IPM ASEAN Eng Ketut Gendroyono ST MT Dr Ir Tutang Muhtar K ST M Si Ukuran 14 5 x 21 cm Tebal 72 Halaman Cover Soft Cover No ISBN 978 623 162 827 5 No E ISBN 978 623 162 828 2 PDF SINOPSIS Buku ini berjudul Analytical Hierarchy Proses AHP Metode Penentuan Prioritas Pemilihan Jenis Perkerasan Jalan Buku ini membahas tentang Analytical Hierarchy Proses AHP Metode Penentuan Prioritas Pemilihan Jenis Perkerasan Jalan Buku ini penulis berkontribusi di bidang Teknik terutama tentang konstruksi jalan di Indonesia Buku ini terdiri dari lima bab Adapun pembahasan masing masing bab sebagai berikut Bab 1 Urgensi Perkerasan Jalan dengan Metode Analytical Hierarchy Proses AHP Bab 2 Konsep Perkerasan Jalan Bab 3 Konsep Metode AHP Analytical Hierarchy Process Bab 4 Studi tentang Perkerasan Jalan dengan Metode AHP Bab 5 Merangkum Kembali tentang Perkerasan Jalan dengan Metode AHP Semoga buku ini dapat menambah pengetahuan dan wawasan pembaca tentang Analytical Hierarchy Proses AHP Metode Penentuan Prioritas Pemilihan Jenis Perkerasan Jalan **TEORI DAN APLIKASI METODE DAN PERALATAN KONSTRUKSI** Dr. Mardiaman, S.T., M.T., IPM., 2025-05-13 Buku Teori dan Aplikasi Metode dan Peralatan Konstruksi membahas alat alat konstruksi mekanisme kerja dan bagaimana menggunakannya pada berbagai tahapan proyek Buku ini menjelaskan cara kerja efisiensi dan perhitungan produktivitas dari alat berat seperti excavator motor grader hingga pompa beton Setiap bab berfokus pada teori dan praktik seperti cara memilih alat sesuai dengan jenis pekerjaan dan kondisi lapangan Pembahasannya meliputi cara mengelola penggunaan alat dalam proyek jalan struktur dan pondasi Selain itu buku ini mencakup elemen penting seperti dewatering pemadatan dan pekerjaan bangunan bawah serta penggunaan alat uji di lapangan Buku ini cocok untuk mahasiswa Teknik Sipil dosen konsultan dan kontraktor karena pendekatan berbasis proyek dan penjelasan yang mudah dipahami

Perancangan Proyek Perkerasan Jalan Yuliyanti Kadir, Frice L. Desei, Fadly Achmad, Iis Roin Widiati, Andi Ibrahim Yunus, Citra Indriyati, Safrudin Safrudin, Jemmy E E. Tumimomor, Richard Wempie Vicky Uguy, Armin Aryadi, Raymond David Pandey, Ramon Charles Rumambi, 2024-11-20 Perancangan Proyek Perkerasan Jalan adalah buku yang mengupas tuntas rahasia di balik infrastruktur jalan yang kokoh dan tahan lama Buku ini dirancang khusus untuk menjadi pegangan utama bagi mahasiswa teknik insinyur dan profesional bidang konstruksi jalan yang ingin menciptakan jalanan berkualitas tinggi di berbagai kondisi medan Dimulai dari dasar dasar perkerasan pembaca diajak menyelami setiap lapisan yang membentuk kekuatan jalan dari tanah dasar hingga permukaan yang mampu menahan beban lalu lintas berat Buku ini memandu langkah demi langkah dalam proses desain mulai dari memilih material yang tepat menghitung beban dan ketahanan hingga menerapkan teknik konstruksi perkerasan kaku maupun lentur Tidak hanya itu buku ini juga menyajikan studi kasus nyata

yang menunjukkan tantangan dalam dunia nyata dan solusi inovatif yang bisa diterapkan dalam proyek jalan di Indonesia Dilengkapi dengan diagram ilustrasi teknik dan contoh soal Perancangan Proyek Perkerasan Jalan bukan sekadar teori melainkan panduan yang hidup dan aplikatif Bagi siapa pun yang bercita cita menciptakan jalan yang tak hanya fungsional tetapi juga tahan uji waktu buku ini adalah jawabannya Pengantar Perkerasan dan Landasan Lucky Caroles, Kemajuan signifikan telah dibuat di bidang teknik perkerasan selama bertahun tahun sejak tahun 2013 Penelitian baru telah memberi jalan untuk implementasi di berbagai bidang seperti konsep baru pengujian baru dan definisi serta kerangka kerja yang lebih komprehensif untuk pembangunan berkelanjutan perkerasan Merupakan tantangan untuk menyeimbangkan dasar dasar dengan konsep lanjutan khususnya karena kami telah mencoba menyajikan buku ini dan buku lain sejenis untuk sarjana dan mahasiswa pascasarjana praktisi dan konsultan Kami telah mencoba menjaga keseimbangan antara teori dan praktik karena teknik perkerasan adalah cabang teknik sipil yang banyak diterapkan Namun kami mencoba memasukkan informasi terbaru yang relevan dan telah menunjukkan situs web yang sesuai untuk informasi lebih lanjut Kami berharap para pembaca akan menemukan buku ini bermanfaat dan menarik Kami berterima kasih atas penerimaan terhadap buku ini dan meminta umpan balik kepada kami tentang cara untuk memperbaikinya Akhirnya kami mendoakan yang terbaik bagi mereka dalam pencarian pengetahuan dalam profesi yang sangat mulia ini INFRASTRUKTUR PEMBAHARU Silica Fume in Asphalt Concrete-Wearing Course Yonas Prima Arga Rumbyarso S.T., M.T., M.M., Jalan merupakan sebuah bangunan infrastruktur yang digunakan oleh masyarakat sebagai sarana penunjang transportasi dari satu tempat ke tempat lainnya dalam menunjang kegiatan perekonomian distribusi barang serta jasa Bangunan jalan atau biasa yang kita kenal sebagai konstruksi perkerasan lentur biasanya terbuat dari 2 dua material yaitu material dasar agregat dan aspal Buku ini akan mengupas secara tuntas terkait karakteristik silica fume sebagai mineral pengisi atau bahan pengisi filler pada campuran aspal beton untuk mendapatkan hasil yang bermutu baik dan bagaimana perbandingan penggunaan silica fume sebagai mineral pengisi atau bahan pengisi filler yang bermutu baik untuk campuran aspal beton Transportasi Perkerasan Jalan Andi Ibrahim Yunus,Suyadi Suyadi,Surya Eka Priana,Hence Sandi David Roring,Anton Kaharu,Fadly Achmad,Frice Lahmudin Desei,Yuliyanti Kadir,Richard Wempie Vicky Uguy,Jemmy E.E. Tumimomor,Raymond David Pandey,Toni Budi Santoso,2025-04-28 Buku Transportasi Perkerasan Jalan membahas secara mendalam berbagai aspek perencanaan konstruksi dan pemeliharaan perkerasan jalan dalam sistem transportasi modern Dengan pendekatan ilmiah dan praktis buku ini mengupas konsep dasar perkerasan jalan jenis jenis perkerasan seperti perkerasan lentur kaku dan komposit serta teknologi terbaru dalam bidang ini Selain menjelaskan metode perancangan yang sesuai dengan standar nasional dan internasional buku ini juga membahas faktor faktor yang mempengaruhi kinerja perkerasan jalan termasuk beban lalu lintas kondisi tanah dasar serta dampak perubahan iklim terhadap ketahanan infrastruktur jalan Isu isu strategis seperti penggunaan material ramah lingkungan rekayasa lalu lintas serta inovasi dalam pemeliharaan jalan juga menjadi bagian dari

pembahasan yang dikaji secara mendalam Dilengkapi dengan studi kasus ilustrasi teknis serta analisis berbasis data buku ini menjadi referensi yang sangat berguna bagi mahasiswa teknik sipil akademisi serta profesional yang berkecimpung dalam perencanaan dan pembangunan infrastruktur jalan yang berkelanjutan dan berkinerja tinggi *Transportasi dan Perkerasan Jalan* Andi Ibrahim Yunus, Muhammad Ihsan Mukrim, Yudha Rachman Winarto, Sarif Sarif, Hamzah Hamzah, Rabiyyatul Uzda, Zony Yulfadli, Siti Muslikah, Husni Mubarak, Jamaluddin Jamaluddin, Andi Ahdan Amir, 2025-06-08

Transportasi jalan dan perkerasan merupakan aspek vital dalam pembangunan infrastruktur suatu negara Buku Transportasi dan Perkerasan Jalan ini disusun sebagai upaya untuk memberikan pemahaman menyeluruh mengenai berbagai jenis perkerasan jalan elemen perencanaannya material yang digunakan hingga metode pelaksanaan dan pemeliharaan Dengan pendekatan sistematis dan berbasis pada referensi teknis yang mutakhir buku ini diharapkan dapat menjadi panduan yang berguna bagi mahasiswa teknik sipil praktisi di lapangan maupun pihak pihak yang berkepentingan dalam pembangunan infrastruktur jalan yang andal aman dan berkelanjutan Kami menyadari bahwa kualitas infrastruktur jalan sangat bergantung pada pemahaman teknis yang komprehensif dan penerapan metode yang tepat Oleh karena itu buku ini juga memuat pembahasan tentang sistem drainase evaluasi kinerja perkerasan keselamatan lalu lintas serta teknologi dan inovasi terbaru dalam transportasi jalan Ucapan terima kasih kami sampaikan kepada semua pihak yang telah membantu dalam penyusunan buku ini Semoga karya ini dapat memberikan manfaat sebesar besarnya bagi pengembangan keilmuan dan praktik profesional di bidang transportasi dan perkerasan jalan *Road Pavement Planning* Diah Puspita Ningrum, 2019-08-12

Covers planning stages pavement material selection and design standards for long lasting transportation infrastructure

Physics and Mechanics of New Materials and Their Applications Ivan A. Parinov, Shun-Hsyung Chang, Yun-Hae Kim, Nao-Aki Noda, 2021-08-10 This book presents selected peer reviewed contributions from the 2020 International Conference on Physics and Mechanics of New Materials and Their Applications PHENMA 2020 26 29 March 2021 Kitakyushu Japan focusing on processing techniques physics mechanics and applications of advanced materials The book describes a broad spectrum of promising nanostructures crystal structures materials and composites with unique properties It presents nanotechnological design approaches environmental friendly processing techniques and physicochemical as well as mechanical studies of advanced materials The selected contributions describe recent progress in computational materials science methods and algorithms in particular finite element and finite difference modelling applied to various technological mechanical and physical problems The presented results are important for ongoing efforts concerning the theory modelling and testing of advanced materials Other results are devoted to promising devices with higher accuracy increased longevity and greater potential to work effectively under critical temperatures high pressure and in aggressive environments *Beton "Jenis dan Kegunaannya"* Irianto, Didik S.S. Mabui, Suparjo, Reny Rochmawati, Andung Yuniarta, Miswar Tumpu, Franky E.P. Lopian, Sigit Riswanto, Mohammad Fauzi, 2023-03-09

TEKNOLOGI BETON Fauzan Hamdi, Franky Edwin Paskalis

Lapian, Miswar Tumpu, Mansyur, Irianto, Didik Suryamiharja S. Mabui, Adri Raidyarto, Ardi Azis Sila, Masdiana, Parea Rusan Rangan, Hamkah, 2022-03-23 Beton adalah bahan komposit yang terbuat dari beberapa material yang menggunakan bahan utama yaitu semen agregat halus agregat kasar air dan material tambahan jika dibutuhkan dengan komposisi tertentu Beton adalah material komposit oleh karena itu kualitas beton sangat tergantung dari kualitas masing masing material pembentuknya Beton merupakan bahan konstruksi yang banyak digunakan pada bangunan struktur Bisa dikatakan semua bangunan struktur dibangun menggunakan beton sebagai bahan konstruksi utama contohnya yaitu struktur gedung struktur bangunan air struktur bangunan transportasi dan banyak lagi bangunan struktur lainnya Salah satu kelebihan beton yaitu mampu menahan beban tekan perubahan cuaca suhu yang tinggi dapat dibentuk dan mudah dirawat Berkembangnya ilmu pengetahuan khususnya di bidang konstruksi maka material penyusun beton juga mengalami perkembangan Sebagian produsen semen di Indonesia sudah mengadopsi semen kombinasi blended cement yang sudah dibesarkan terlebih dulu di sebagian negeri di Eropa Amerika Jepang serta lain lain salah satunya adalah abu terbang sebagai salah satu material pozzolan yang bisa dicampur bersama klinker semen buat memproduksi semen kombinasi Dalam dekade terakhir di Indonesia bersumber pada pertimbangan konservasi alam pengurangan limbah semacam abu terbang penyusutan emisi CO₂ serta faktor faktor lain yang terpaut dengan pembangunan infrastruktur berkepanjangan sudah terdapat kecenderungan yang kokoh ke arah pengembangan akumulasi alternatif buat pembuatan semen kombinasi ramah lingkungan semacam semen portland komposit Portland Composite Cement Banyak upaya sudah dicoba untuk mengurangi jejak karbon industri semen misalnya i tingkatkan efisiensi tenaga ii mengubah bahan bakar fosil dengan sumber tenaga alternatif semacam residu hewan lumpur limbah serta minyak limbah iii substitusi semen Portland tradisional dengan bahan semen alternatif semacam slag furnace serta abu pembakaran batubara serta masih banyak lagi teknologi lain yang diterapkan

Manajemen Proyek Konstruksi Dan Teknik Pengendalian Proyek Ir. SUGIYANTO, M. MT, Keberadaan pejalan kaki di jalan memerlukan fasilitas bagi pejalan kaki salah satunya adalah fasilitas penyeberangan jalan seperti Jembatan Penyeberangan Orang JPO JPO dipasang sehingga tidak ada pertemuan sebidang antara arus pejalan kaki dengan arus lalu lintas Namun demikian agar pejalan kaki mau untuk menggunakan JPO selain menjamin keamanan dalam menyeberang juga harus menarik minat para pejalan kaki untuk menggunakan fasilitas tersebut Pemerintah Kecamatan Widang telah menyediakan JPO bagi pejalan kaki yang dimaksudkan untuk memudahkan masyarakat setempat melakukan kegiatan penyeberangan jalan dengan aman

Road Paving Diah puspita Ningrum, 2019-08-12 Discusses paving materials mix design and construction techniques for durable and cost effective pavements

TEKNIK JALAN RAYA: TEORI DAN PRAKTIK Ir. Muhammad Abi Berkah Nadi, S.T., M.T., Dr. Ir. Don Radius Gerald Kabo, S.ST., MT., IPM, Heriadi S.T, M.Sc., Andi Sahrul Hidayat, ST., MT., Ir. Hj . Ilyas Ichsan, ST., MT., Hafiz Abdillah ST, M.Eng., Agus Sembodo, M.Sc., Irfan Hardiansyah, MT., Cut Adinda Nathasia, ST, MT, Rika Marlia, S.Pd, M.MTr, Ir. Jamaludin S.T., M.Sc., 2025-04-29 Buku ini menyajikan pembahasan komprehensif tentang teknik

jalan raya dimulai dari sejarah transportasi dan perkembangan jalan dari masa prasejarah hingga era modern Penulis menekankan peran penting infrastruktur jalan dalam mendukung mobilitas distribusi logistik dan pembangunan sosial ekonomi Bab bab awal memperkenalkan konsep dasar perencanaan jalan mulai dari studi kelayakan penentuan lokasi dan trase hingga aspek teknis dan regulasi yang menjadi landasan dalam pengembangan sistem transportasi yang efisien aman dan berkelanjutan Selanjutnya buku ini mengulas secara mendalam aspek teknis dan praktis dalam perencanaan dan pembangunan jalan termasuk desain geometrik jalan jenis perkerasan lentur kaku dan gabungan sistem drainase serta manajemen lalu lintas dan keselamatan Teknologi terkini seperti penggunaan GIS BIM drone mapping serta pemodelan lalu lintas juga diperkenalkan sebagai solusi modern dalam perencanaan dan pengelolaan jalan Tak hanya itu buku ini turut menyoroti pentingnya analisis dampak lingkungan dan sosial serta partisipasi publik dalam pembangunan jalan yang berkeadilan dan ramah lingkungan

REKAYASA LALU LINTAS DAN KESELAMATAN JALAN Ir. Muhammad Abi Berkah Nadi, S.T., M.T., Ir. Monika Datu Mirring Palinggi, ST, MT., Andi Sahrul Hidayat, ST., MT., Anasta Wirawan S.ST, M.M, M.Sc., R. Caesario Boing Rachmat Raharjo. S.Si.T., MT., Rika Marlia, S.Pd, M.MTr, Erwin Taroreh, SH., MH., C.PPA., C.Med, Irfan Hardiansyah, MT., Raden Herdian Bayu Ash Shiddiq, ST., MT, 2025-07-10 Buku ini berisikan tentang aspek penting dalam pengaturan lalu lintas dan perancangan jalan yang aman nyaman dan efisien Buku ini diawali dengan pemaparan konsep dasar lalu lintas prinsip rekayasa transportasi serta faktor faktor yang mempengaruhi keselamatan jalan Buku ini menjelaskan bagaimana desain jalan yang tepat tidak hanya meningkatkan kenyamanan berkendara tetapi juga berperan besar dalam mencegah kecelakaan dan kerusakan dini infrastruktur Penulis memberikan contoh penerapan perangkat lunak desain jalan terkini seperti AutoCAD Civil 3D MX Road dan SDPJ yang dapat membantu menghasilkan perencanaan jalan yang lebih akurat dan efisien

Flexible Pavement Structure Thickness Design Diah puspita Ningrum, 2019-08-12 Explains methods for determining pavement layer thickness using traffic load subgrade strength and material properties **ADHI KNOWLEDGE SERIES, Megaproject Tol Sigli-Banda Aceh** Roni Kusuma Negara, Tito Waluyo, Nanik Susanti, 2023 Judul ADHI KNOWLEDGE SERIES Megaproject Tol Sigli Banda Aceh Ukuran 16 x 24 cm Halaman 268 hlm Cetak cover FC 4 0 Cetak isi FC 4 4 Bahan isi Mattpaper 100 gr Bahan cover AC 260 gr Finishing Perfect Binding Laminasi Doff Spot UV Kategori Buku Teknik Sipil ISBN 978 623 182 171 3 Buku ADHI Knowledge Series Tol Sigli Banda Aceh ditulis untuk mendokumentasikan perjalanan PT Adhi Karya Persero Tbk dalam melaksanakan proyek pembangunan Jalan Tol Sigli Banda Aceh Pembahasan dimulai dari dasar kebijakan pembangunan Jalan Tol Sigli Banda Aceh strategi dan manajemen pelaksanaan proyek hingga teknik pekerjaan konstruksinya Secara umum ADHI memaparkan tentang teknik pembangunan konstruksi mulai dari tahap prakonstruksi masa konstruksi hingga persiapan operasi jalan tol Semua pembahasan dalam buku ini merupakan best practice berangkat dari pengalaman ADHI selama mengerjakan konstruksi Jalan Tol Sigli Banda Aceh Buku ini bisa menjadi referensi pengantar bagi mahasiswa karyawan konstruksi atau

masyarakat umum yang ingin memahami dan melaksanakan pekerjaan konstruksi *Seri Rumah Ide: Simple Garden* ,

Geometric Design of Roads Diah puspita Ningrum, 2019-08-16 Discusses alignment cross section sight distance and safety considerations in highway and road design **Evaluasi Perkerasan Jalan dan Jembatan** Dr. Ir. Hendrik Jimmyanto, S.T., M.Si., IPM, Dr. Ir. Ramadhani, S.T., M.T., IPM, Dr. Ir. Kiagus M. Aminuddin, S.T., M.T., IPU, ASEAN Eng, Dr. Rindu Twidi Bethary, S.T.M.T., Buku ini dibuat untuk menjelaskan kepada pembaca mengenai tata cara evaluasi perkerasan jalan maupun jembatan Pada buku ini diuraikan beberapa penjelasan mengenai jenis perkerasan jalan jenis dan bentuk kerusakan jalan maupun jembatan yang sering terjadi Selanjutnya buku ini juga menyajikan tata cara penilaian kerusakan jalan dengan beberapa metode yang sudah ada guna mengevaluasi kondisi perkerasan jalan maupun jembatan Dalam penjelasan tiap tiap materi yang diberikan terdapat contoh soal dan pembahasannya Pada akhir materi diberikan latihan soal untuk mempertajam kemampuan para pembaca

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Perkerasan Beton Semen Introduction

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