

5.2 Struktur dan jenis perkerasan beton semen

Perkerasan beton semen dibedakan ke dalam 4 jenis :

- Perkerasan beton semen bersambung tanpa tulangan
- Perkerasan beton semen bersambung dengan tulangan
- Perkerasan beton semen menerus dengan tulangan
- Perkerasan beton semen pra-tegang

Jenis perkerasan beton semen pra-tegang tidak dibahas dalam pedoman ini.

Perkerasan beton semen adalah struktur yang terdiri atas pelat beton semen yang bersambung (tidak menerus) tanpa atau dengan tulangan, atau menerus dengan tulangan, terletak di atas lapis pondasi bawah atau tanah dasar, tanpa atau dengan lapis permukaan beraspal. Struktur perkerasan beton semen secara tipikal sebagaimana terlihat pada Gambar 1.



Gambar 1. Tipikal struktur perkerasan beton semen

Pada perkerasan beton semen, daya dukung perkerasan terutama diperoleh dari pelat beton. Sifat, daya dukung dan keseragaman tanah sangat mempengaruhi keawetan dan kekuatan perkerasan beton semen. Faktor-faktor yang perlu diperhatikan adalah kadar air pemadatan, kepadatan dan perubahan kadar air selama masa pelayanan.

Lapis pondasi bawah pada perkerasan beton semen adalah bukan merupakan bagian utama yang memikul beban, tetapi merupakan bagian yang berfungsi sebagai berikut :

- Mengendalikan pengaruh kembang susut tanah dasar.
- Mencegah intrusi dan pemompaan pada sambungan, retakan dan tepi-tepi pelat.
- Memberikan dukungan yang mantap dan seragam pada pelat.
- Sebagai perkerasan lantai kerja selama pelaksanaan.

Pelat beton semen mempunyai sifat yang cukup kaku serta dapat menyebarkan beban pada bidang yang luas dan menghasilkan tegangan yang rendah pada lapisan-lapisan di bawahnya.

Bila diperlukan tingkat kenyamanan yang tinggi, permukaan perkerasan beton semen dapat dilapisi dengan lapis campuran beraspal setebal 5 cm.

5.3 Persyaratan teknis

5.3.1 Tanah dasar

Daya dukung tanah dasar ditentukan dengan pengujian CBR insitu sesuai dengan SNI 03-1731-1989 atau CBR laboratorium sesuai dengan SNI 03-1744-1989, masing-masing untuk perencanaan tebal perkerasan lama dan perkerasan jalan baru. Apabila tanah dasar mempunyai nilai CBR lebih kecil dari 2 %, maka harus dipasang pondasi bawah yang terbuat dari beton kurus (*Lean-Mix Concrete*) setebal 15 cm yang dianggap mempunyai nilai CBR tanah dasar efektif 5 %.

Perencanaan Perkerasan Jalan Beton Sni 2003

Teknika: Jurnal Sains dan Teknologi



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REKAYASA PERKERASAN JALAN: Prinsip, Praktik, dan Inovasi Prof. Dr.-Ing Daud Nawir, ST. MT. ; Dr. Achmad Zultan Mansur, ST. MT.,2025-03-01 Buku ini merupakan panduan komprehensif tentang rekayasa perkerasan jalan dirancang untuk akademisi mahasiswa serta praktisi di bidang teknik sipil dan transportasi Mengupas secara mendalam peran vital perkerasan jalan dalam infrastruktur buku ini menyajikan konsep dasar fungsi serta klasifikasi utama perkerasan yaitu perkerasan lentur kaku dan komposit Setiap jenis dikaji dengan penjelasan rinci mengenai karakteristik keunggulan keterbatasan serta pemilihan material penyusun seperti agregat aspal dan beton Tidak hanya membahas aspek teoritis buku ini juga diperkaya dengan contoh aplikasi nyata dan studi kasus dari berbagai proyek di Indonesia memberikan wawasan praktis yang relevan dengan kondisi lapangan Dilengkapi dengan referensi standar nasional SNI dan internasional AASHTO pembaca akan memperoleh pemahaman yang akurat mengenai metode desain pelaksanaan konstruksi strategi pemeliharaan serta teknik rehabilitasi perkerasan jalan Selain itu isu isu terkini dalam teknologi perkerasan termasuk material ramah lingkungan dan inovasi berbasis digital turut dibahas sebagai upaya menuju pembangunan infrastruktur yang lebih berkelanjutan Dengan bahasa yang sistematis dan lugas buku ini menjadi pegangan wajib bagi mahasiswa dosen peneliti serta para profesional yang ingin mendalami dan mengembangkan kompetensi di bidang perkerasan jalan Sebuah investasi berharga bagi siapa saja yang berkecimpung dalam dunia rekayasa transportasi dan infrastruktur jalan **PERKERASAN JALAN** Andi Ibrahim Yunus, S.T., M.T., Rizky Setyaningsih Amd.LLAJ, SSiT, MM, M.Tr.T,Cut Adinda Nathasia, ST, MT,Dr. Ir. Nurul Azizah, ST. MT,Ir. Monika Datu Mirring Palinggi, ST, MT.,Ir. Jamaludin S.T., M.Sc,Anasta Wirawan S.ST, M.M, M.Sc.,Ir M Hidayanto S.T., M.T,Evi Fadhillah,R. Caesario Boing Rachmat Raharjo. S.Si.T., MT. ,Johan Budiman,2025-10-16 Buku ini berisikan tentang berbagai jenis perkerasan mulai dari perkerasan lentur flexible pavement perkerasan kaku rigid pavement hingga perkerasan modern berbasis material inovatif Dengan pendekatan yang sistematis buku ini menekankan pada prinsip dasar desain pemilihan material serta faktor teknis dan lingkungan yang memengaruhi kinerja perkerasan jalan Buku ini juga menguraikan proses konstruksi dan pemeliharaan jalan secara rinci Memahami tahapan survei lapangan perencanaan struktur lapisan hingga teknik pelaksanaan konstruksi sesuai standar yang berlaku Pembahasan mengenai kerusakan jalan analisis penyebab serta metode rehabilitasi dan perbaikan juga diberikan untuk memperkuat pengetahuan praktis dalam pengelolaan infrastruktur jalan yang berkelanjutan **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

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

3rd fib Congress Washington USA FIB - International Federation for Structural Concrete, 2010-06-01

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Jembatan Indonesia, 2011 Profile of bridges in Indonesia *Road Pavement Planning* Diah puspita Ningrum, 2019-08-12

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

Perencanaan Perkerasan Jalan Muhammad Husin Gultom, 2025-04-15 Buku ini disusun sebagai panduan praktis dan teoritis dalam memahami konsep perkerasan jalan mulai dari prinsip dasar metode perancangan hingga penerapan teknologi terkini di bidang infrastruktur transportasi sesuai dengan peraturan yang berlaku **Beton Aspal Campuran Panas**, 2003-09-01

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