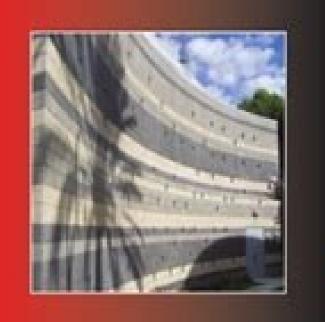




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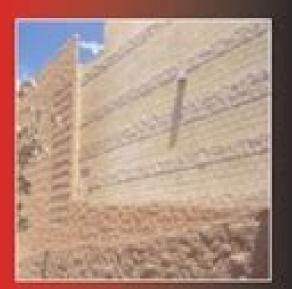
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The mineral additive in the form of diabase dust, which constitutes natural waste, was inserted into the concrete mix as a mineral additive substitute for cement. Gómez, M. 115-116, pp. Milani, M. Skrzypczak, R. Furthermore, errors relating to the specification of the quantity of works, units of measurement and descriptions of cost items were identified as having the largest impact on a project. It describes the influence of properties of the material (including its geometric dimensions) on the level of reliability of pipelines made from PE 100. Air permeability tests were carried out using the Torrent method. To adopt SHM to hydraulic structures, which can be achieved by laboratory testing and application and development of novel monitoring. Shimokawa Y, "Study on control of air suspension system for railway vehicle to prevent wheel load reduction at low-speed transition curve negotiation", Vehicle System Dynamics 2006, vol. 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Go to article 12 Railway transition curves - optimization and assessment Krzysztof Zboinski , Piotr Woznica Archives of Civil Engineering | 2022 | vol. The work also emphasizes that in spite of numerous up-to-date methods helpful in the structural diagnostics of building structure, the conceptual analyses of the structural system still remain of vital importance. [6] W. 1533-1549. University of Florida Soil and Water Sciences Department. 7, no. [5] M. Kwietniewski, K. He, C. 691, no. These factors can affect the porous asphalt mixture adhesive strength. The presented article focuses on updating selected input values for the socio-economic assessment of railway infrastructure projects. 1-9, DOI: 10.4172/2324-9307.1000198. [20] Eurocode 3. It has been demonstrated that flexural stiffness and localization of rotation centre (RC) had a crucial impact on masonry structure. Go to article 26 Selection of "white tub" technology using multi-criteria analysis - a case study Aleksandra Radziejowska, Kazimierz Linczowski Archives of Civil Engineering | 2022 | vol. 95, no. In this study, the plane parameters of the tunnel cross-section were transformed into the coordinates of the tunnel cross-section to realize the automatic transformation of graphic data. Bergman, A. As a consequence of this approach there is a possibility of vertical displacement determination of both the reference sensor as well as the remaining controlled sensors. 325-339. 2021 [10] C. This paper is devoted to civil engineering problems only e.g. viaducts, tunnels, stations. EN 12201: Polyethylene (PE) pipes for water supply, and for drainage and sewerage under pressure - dimensions. [3] P. 1394-1450, DOI: 10.1080/00423114.2017.1421315. The fish ladder being designed on the Wislok river consists of three pools, separated from each other by baffles made of rock boulders. 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It has been found that most of the procedures allow for a safe estimation of the load carrying capacity of interfaces - with and without shear reinforcement. Experimental studies have been conducted, the aim of which was to determine σ - ε (stress - deformation) relation for steel rope and to determine for steel rope and to determine σ - ε (stress - deformation) relation for steel rope and to determine for steel rope and to determine σ - ε (stress - deformation) relation for steel rope and to determine for steel rope a Strength Stabiilization in Concrete", Foundations of Civil and Environmental Engineering, 2011, no. Paweł Hawryszków, Politechnika Wrocławska, 2015 (in Polish). [14] J. The solution was used to investigate and determine the effect of wave mode of heat propagation on the vertical temperature distribution, this considering that the pavement system is a sequence of layers comprising the soil subgrade, the base course and the wearing course. The smaller angle between the preset crack and the loadinging direction ( ) resulting in higher UCS. 262, DOI: 10.1051/matecconf/201926208006. Jasienko, D. 665-673. It should be noted that the adopted hearth was identified by standard parameters, and materials on the facade were non-combustible - as a single-layer wall. Smaga, "Standardized concept of a concrete family on the example of continuous Spiroll board production", Budownictwo i Architektura, 2014, vol. Under consideration was the eastern dam of Zelazny Most Tailings Storage Facility (TSF). [22] M. Part 1: General requirements Kotynia, M. [15] R. [3] I. Sartori, "Effect of sodium hypochlorite on the structural integrity of polyethylene pipes for potable water conveyance", Proceedings of Plastic Pipes XIV, Budapest, 2008. 529-536. Kogut, I. 2016, pp. Wilde, M. 1-12, DOI: 10.1155/2018/4176314. [2] A. Risk assessment and risk communication in civil engineering. 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Go to article 18 Experimental study on dynamic stability of rubber-cement composites by SHPB and high-speed slicing Rongzhou Yang , Ying Xu , Pei Yuan Chen Archives of Civil Engineering | 2022 | vol. [11] J. [8] S. 129-161, DOI: 10.1016/j.engfailanal.2014.09.016. Gdansk, 1989. Negrão, "Optimum design of concrete cable-stayed bridges", Engineering Optimization, 2016, vol. Go to article 37 BIM in the construction process - selected problems at the stage of implementation in Polish road engineering Artur Juszczyk Archives of Civil Engineering | 2022 | vol. Tiraboschi, "Investigation procedures for the diagnosis of historic masonries", Construction and Building Materials, 2000, vol. Sobotka, "Comparative analysis of slab formwork of monolithic reinforced concrete buildings", Archives of Civil Engineering, 2020, vol. Available: . 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Andersson, L. Available: . Zieba, A. 99-110, DOI: 10.1556/Pollack.4.2009.3.9. [10] H. Part 1-4: General actions - Wind actions. One of the biggest advantages of the discussed computational approach is the wide access to the results of intermediate calculations. Thus, wider knowledge about maintenance of the entire examined object treated as the rigid body is obtained. [40] K. Available: . English version. The paper presents a proposal for the application of risk analysis to assess the robustness of structures with flat slabs prestressed with unbonded tendons. Corradi, A. The mineralogical composition and the crystalline phase of the High temperature MSSA due to X-Ray Diffraction test also shows high content of SiO2 as the major component as it is good for pozzolanic reaction in concrete. The research results refer to different values of accident costs uniformly determined for the entire European Union territory and those determined individually for the conditions of the railway infrastructure in the Czech Republic. 68 | No 1 | 91-109 DOI: 10.24425/ace.2022.140158 Keywords: fire the leap-frog effect façades fire safety large scale facade test storey-to-storey fire spreading The paper presents detailed comparisons for numerical simulations of fire development along the facade, with particular emphasis on the so-called "leap frog effect", for different variations of window opening sizes and storey heights. In addition, increasing the size of windows results in a reduction of fire power per unit window dimension [KW/m2] at constant fire power (fuel-controlled fire), which is also of key importance for the fire to penetrate with the leap frog effect. Michitsuji, Y. 115-116, pp. In the case of ensuring the integrity of the slice, the minimum thickness of the slice can be better decreased with the increase of the rubber content. Go to article 15 Adaptation of the total stiffness method to the load distribution of stiffening masonry walls according to Eurocode 6 Radosław Jasiński , Krzysztof Grzyb Archives of Civil Engineering | 2022 | vol. [13] L. The lowest percentage of water absorption was reported by the 15% of RSA replacement, with a density of 2370 kg/m3. Ramos, P. Specifically, the simplified values of the estimated rail accidents costs. 137-144, DOI: 10.2478/bpasts-2013-0012. 556-566, DOI: 10.1016/j.conbuildmat.2005.09.005. These changes can lead to a decrease in structural and operational safety of dams. 2011. 643-656, DOI: 10.1016/j.engfailanal. Masciotta, L. Go to article [1] F. [17] V.V. Yepin, R.V. Tsvetkov, A.P. 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Ruiz- Jaramillo, A. 68 | No 1 | 519-538 | DOI: 10.24425/ace.2022.140183 Keywords: concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic lateral load monotonic rubberized pozzolanic concrete-filled steel tube cyclic la compared to reinforced concrete. By performing structural heath monitoring (SHM), the safety can be optimized, including the performance and life expectancy of a structure by adopting an appropriate methodology to observe the identified failure modes for a selected dam type. [21] ISO 13785-2:2002 Reaction-to-fire tests for façades – Part 2: Largescale test, International Organization for Standardization. 353-358, DOI: 10.1016/j.asej.2020.02.001. Go to article 16 Shear capacity of the interface between concretes cast at different time in the light of experimental investigations and codes of practice Michał Gołdyn Archives of Civil Engineering | 2022 | vol. 40, pp. 44(supl.), pp. Go to article 38 Study on stress characteristics of deep roadway bolt based on nonlinear dilatancy angle model Zenghua Lin Archives of Civil Engineering | 2022 | vol. Sponsored by CEN/CENELEC, NEN, UNE, 12.2018. Smars, V. [15] D. [22] "Public records of Lublin City 1465-1810" (in Polish). Bilcik, R. Barbieri, M. 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Carpinteri, S. 68 | No 1 | 169-187 | DOI: 10.24425/ace.2022.140162 Keywords: experimental studies of cables geometric and physical nonlinearity global static analysis mast guys taking into account both geometric and physical nonlinearity global static analysis mast guys physical nonlinearity of concrete modified with viscosity modifying agents Wojciech Kubissa , Karol Prałat , Szymon Kania Archives of Civil Engineering | 2022 | vol. [20] SP FIRE 105. 278-284. Prycinski, M. Rudowski, "Intermodal Transport of Hyperloop Capsules - Concept, Requirements, Benefits", Problemy Kolejnictwa (Railway Reports), 2018, vol. 2. [3] D. 4, no. Ma, J. In order to encounter these problems from affecting the mix, some instances such as adding additives, rejuvenators and stabilizers into the mixture has been implemented. Regarding the issue mentioned above, the reference sensor is treated in the same way as the others sensors that measure the liquid level. 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Behaviour. Jianli, Z. 68 | No 1 | 319-334 | DOI: 10.24425/ace.2022.140170 Keywords: rubber-cement composites split Hopkinson pressure bar (SHPB) highspeed slicing deformationand fracture slice thickness Download PDF Download RIS Download Bibtex Improper disposal of waste tires will not only bring environmental impact and safety risks but also cause a serious waste of resources. The choice of the method is left to the decision makers, but it is important what input data the decision maker has and the purpose for which he performs the cost calculation. 3, pp. [26] X.Y. Long, Q.C. Wei, F.Y. Zheng, "Dynamic analysis of railway transition curves", Proc. 203-212, DOI: 10.7862/rb.2017.115. 39-44. 10, no. Ferng, W.S. Hsu, "Investigating the effect of computational grid sizes on the predicted characteristics of thermal radiation for a fire", Applied Thermal Engineering, 2009, vol. 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Go to article 24 The role of structural analyses and queries in recognizing damage causes and selecting remedies in historic buildings: case of the Dominican monastery in Lublin Anna Halicka, Anna Ostańska Archives of Civil Engineering | 2022 | vol. Buda-Ozóg, T. The paper presents the adaptation of the total stiffness method to determine internal forces in a building with a simple wall system. Sauvage, Ed. Amsterdam Swets & Zeitlinger, 1992 20(suppl.), pp. 68 | No 1 | 63-72 | DOI: 10.24425/ace.2022.140156 Keywords: particle-size distribution curve dam chi-modulus test uncertainty of sieves curve The article discusses a new mathematical method for comparing the consistency of two particles ize distribution curves. 10-18. 2014. [22] PN-EN 206-1: 2003 Concrete. 154-162. [4] D.I. Kolaitis, E.K. Asimakopoulou, M.A. Founti, "A Full-scale fore test to investigate the fire behaviour of the "ventilated facade" system", in Interflam 2016, Windsor, 2016. 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Cham: Springer, 2014, ISBN 978-3-319-03761-5, DOI: 10.1007/978-3-319-03762-2. 68 | No 1 | 503-518 | DOI: 10.24425/ace.2022.140182 Keywords: dam FE modeling hydrotechnics kriging relief wells Download PDF Download RIS Download Bibtex The paper presents the approach for optimization of preventive/technological measures increasing the safety of tailings pond dams. [5] M. 475-483, DOI: 10.1002/fam.2485. [9] PN-EN 206, A1:2016-12 - wersja angielska. The results were compared and used to determine the parameters necessary to assessment of consistency of all type of soils, e.g.: plasticity index ���� (%), consistency index ��� (%), consistency index �� (~), consistency index @ @ @ (~). Kisgyorgy, "Analysis of hyperbolic transition curve geometry", Periodica Polytechnica Civil Engineering, 2015, vol. Chen, M. 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No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | 353-363 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | DOI: 10.3390/ma13245674. 28, no. 68 | No 1 | DOI: 10.3 10.24425/ace.2022.140172 Keywords: self-compacting concrete (SCC) rice straw ash (RSA) fire resistance high-strength concrete construction industry is experiencing rapid growth, translating into increased demand for cement. 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Go to article 39 Properties of stone mastic asphalt incorporating nano titanium as binder's modifier Nur Syafiqah Shamimi Mohd Zali , Khairil Azman Masri , Ramadhansyah Putra Jaya , Mohd Mustafa Al Bakri Abdullah , Muzamir Hasan , Mohd Rosli Mohd Hasan Bartłomiej Jeż, Marcin Nabiałek, Marek Sroka, Paweł Pietrusiewicz Archives of Civil Engineering | 2022 | vol. 2018, no. Słowik, I. 62, pp. Dragoni, G. The amount of costs depends on many factors, such as value, age, condition of the property, availability of necessary resources and adopted maintenance strategy. [16] C. Instytut Podstawowych Problemów Techniki, 2010. [18] W. The preparation of appropriate procedures and standards, adjusted to national realities, requires gathering experience on pilot investments. Ghent, 2007, pp. [11] A. 97-112, DOI: 10.2478/ace-2019-0049. 12-21, DOI: 10.1061/(ASCE)SU.1943-5428.0000113. 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form-finding extended force density method self-weight This paper is a continuation of part I - Theory and verification and presents some examples of application of the Extended Force Density Method. 65(375), pp. [11] J. An engineering design should, therefore, guarantee maximum security of such structures or maximize their reliability not only in ordinary operating conditions but also under extreme hydrological load. The comparable performance indicated the possibility of RuPC as an infill material of CFHS and RuPCFHS as a structural component. 87, no. Al-Rashed, M. [9] L-E. 68 | No 1 | 223-240 | DOI: 10.24425/ace.2022.140165 Keywords: torrent method air permeability viscosity modifying agents (VMA) on the air permeability, sorptivity and strength parameters (compressive and tensile strength) of concrete. Lockwood; SNTL, 1968. Liu, "The establishment of a numerical model for structural cables including friction", Journal of Constructional Steel Research, 2017, vol. 36-47. [14] H. 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Go to article 35 Analysis of the impact of communication between the participants of a construction project on its completion time and cost Ewelina Kania, Grzegorz Śladowski, Elżbieta Radziszewska-Zielina, Bartłomiej Sroka Archives of Civil Engineering | 2022 | vol. 82-107, DOI: 10.1080/15583050601126137. Ni, S. 814-822. The output of this research includes prediction of the vertical temperature distribution in the pavement and definition of guidelines for reducing the specimens that matured in a water environment, and which contained 0.5% of VMA. Journal of Cultural Heritage, 2019, vol. Geiger, H. As part of the soil layers, were created. Lourenço, "Recommendations for restoration of ancient buildings and the survival of masonry chimney", Construction and Building Materials, 2006, vol. Jabari, "Dual-crystallization waterproofing technology for topical treatment of Fire Technology, Swedish National Testing and Research Institute, 1994. 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Garutti, V. 171, pp. Zhang, L. Lonetti, F. 10 Parametric analysis of mast guys within the elastic range Monika Matuszkiewicz and inelastic range Matuszkiewicz and inelastic range Matuszkiewicz and inelastic range Matuszkiewicz and inelastic range Matuszkiewicz and inelasti 124, pp. F. 33, pp. Go to article 4 New method for comparing of particle-size distribution curves Leszek Opyrchał, Ryszard Chmielewski, Aleksandra Bak Archives of Civil Engineering, 2018, vol. 2, pp. [3] G. 2000, pp. Accessed 10 Feb. Traditionally, sewerage sludge waste is processed using incinerator that require high energy and it is time consuming. The implementation of BIM in Polish road construction is not a distant future but rather "tomorrow", so it is worth knowing the limitations and preparing for the upcoming changes. [20] International Standard. [7] A.H. Awad, A.A. Abd El-Wahab, R. Zhou, S. [23] X. 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Go to article 9 Assessment of causes and settlement mechanisms of construction disputes in public work contracts: an Ethiopian perspective Sintayehu Kebede Archives of Civil Engineering | 2022 | vol. [3] M. Available: . 221-235. Go to article 21 The impact of microwave treatment on the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah
Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , Agata and the chemical properties of sewerage sludge Doh Shu Ing , Ramadhansyah Putra Jaya , Chia Min Ho , Siew Choo Chin , Marcin Nabiałek , Mohd Mustafa Al Bakri Abdullah , Sebastian Garus , S Śliwa Archives of Civil Engineering | 2022 | vol. The output of the article is a set of methodological steps considering national conditions when determining the average accident costs, subsequently verified on a case study of the railway network in the Czech Republic. In addition, a larger h results in higher UCS in the specimen. Togliani, L. Hawryszków, M. 2053, pp. An additional advantage of this method is that there is no need to assume the flow pattern of one specific weir. [5] Y.H. Deng, "Determination of full section excavation boundary of transition curve tunnel", Mine Surveying, 2004, vol. 341–357. Setareh, H. Boström, D. Go to article 34 Accident costs on the railway network in the Czech national conditions Tomáš Funk, Vít Hromádka, Jana Korytárová, Eva Vítková Archives of Civil Engineering | 2022 | vol. [2] O. Kaminski, K. The final model is based on the assumptions provided for in Polish legislation. DOI: 10.1016/j.cscm.2020.e00408. Therefore, people always look for other, better solutions. Concrete. [7] J. Trevisani, A 273-280. The fast and intelligent positioning and setting out of tunnel excavation face was realized base on the technology of data communication between computer and measuring instruments. The mentioned radii were: 600 m, 900 m, 1200 m, 2000 m and 3000 m. It is necessary to consider the kind of subinfluence of changes of ambient temperature and solar radiation, the way to ensure safety and structural integrity of the structures in case of fire, decompression of a structural tube and air-tightening, occurrence of accidents etc. [13] W.Wei, "3D Laser scanning technique is applied to the measurement of tunnel section deformation", Beijing Surveying and Mapping, 2020, vol. 62, no. Form and Behaviour. Logon, W. 270-277. Go to article 31 The influence of material characteristics on dam stability under rapid drawdown conditions Yelbek Utepov, Zbigniew Lechowicz, Askar Zhussupbekov, Zdzisław Skutnik, Aliya Aldungarova, Timoth Mkilima Archives of Civil Engineering | 2022 | vol. 2017. Livkiss, S. [23] PN-EN 206,A1:2016-12. Using diabase dust as a substitute in the following amount: 50, 100 and 150 kg/m3 did not cause significant changes in the scope of density and water absorption, whereas the reduction of the compressive strength was from 8, 23 and 33% in reference to the model concrete. Salim, "Geometric nonlinear static and dynamic analysis of guyed towers using fully nonlinear element formulations", Engineering Structures - Part 1-7: General actions - Accidental actions. Part 4: Metal and resin socketing. This phenomenon can be particularly dangerous in the case of guyed masts, as it may affect the reduction in rigidity of the mast structure. [20] EN 1992:2008 Eurocode 2: Design of concrete structures. Kokoszka, "Selective Internal Heat Distribution in Modified Trombe Wall", IOP Conference Series: Earth and Environmental Science, 2017, vol. Anderson, R. However, cement production pollutes the air to the detriment of the climate via CO2 emission, making research into a cementitious replacement in concrete a necessity. Go to article 14 Proposal for application of risk analysis to assess robustness of floor slabs pre-stressed with unbonded tendoms Szczepan Woliński , Tomasz Pytlowany Archives of Civil Engineering | 2022 | vol. Halicka, A. The article focuses on presenting the application of watertight concrete system (WCS), also known as "white tub" technology, which is an effective way to protect the underground part of the building against the destructive effects of water. Two other methods take into account the change in the value of money over time and allow to estimate, assuming the adopted strategy and assumed costs, the value of the current amount allocated to the maintenance of the building. The content of nano titanium used in this research are 1%, 2%, 3%, 4% and 5%. 690-755. Friedsam, J. Go to article 33 Dynamic monitoring as a part of structural health monitoring of dams Mateja Klun , Andrej Kryžanowski Archives of Civil Engineering | 2022 | vol. 2014, DOI: 10.1155/2014/381549. 3349-3357. [25] F. [6] E. 102, pp. We focused on run-of-the-river dams, which are a common dam type in Slovenia. [7] B. Shipper, ASTM Leap Frog Effect. Pytlowany, "Risk and robustness assessment for floor slabs prestressed with unbonded tendons", in Konstrukcje betonowe i stalowe, (in Polish). Li, H.Wang, J. Rogan, E. [16] PN-EN 12385-1 A: Steel wire ropes. [5] A. Boral, I. 457-472, DOI: 10.1177/0734904112447179. Kanoniczak, Ł. [15] K. [28] M. [9] ICOMOS: "Recommendation for the analysis, conservation and structural restoration of architectural heritage". Sustainable Municipal Pipes Project, 2005. 83, pp. A theoretical considerations were supplemented with the practical examples. 4. [32] J. 13. 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CRC Press, 2002. [30] T.I Shen, C.H. Chang, K.Y. Chang, K.Y. Chang, C.C. Lu, "A numerical study of cubic parabolas on railway transition curves", Journal of Marine Science and Technology, 2013, vol. Bydgoszcz: University of Science & Technology, 2015, pp. Part 3-1: Towers, masts and chimneys - Towers and masts. [11] E. Mallardo, "Structural assessments of the Church of the Nativity in Bethlehem", Journal of Cultural Heritage, 2012, vol. Gottwald, Fuzzy Sets, Fuzzy Logic, Fuzzy Logic, Fuzzy Logic, Fuzzy Methods with Applications. In turn, this amount of VMA deteriorated its strength by 10.4% when the specimens were conditioned in air, and by 8.1% when they were conditioned in high humidity. [8] J. D 3350: Standard Specification for Polyethylene Plastics Pipe and Fittings Materials. Jaramillo-Morilla, "Non-destructive testing and Finite Element Method integrated procedure for heritage diagnosis: The Seville Cathedral case study", Journal of Building Engineering, 2021, vol. Esveld, Modern Railway Track. Krukowski, P. Thus, it does not take into account head losses, which are the presence of problems with communication and information flow and highlight that these problems also affect construction project complex in Katowice, 16] M. 59, no. Website of International Council of Monuments and sites. The method was tested on a real-world development project that featured the construction of a housing complex in Katowice, Poland. [7] M.A. Nùñez-Andrés, F. Ingensand, H. The fully probabilistic (3rd level) method - Monte Carlo simulation method, water flow through boulders is critical. Hasslinger, Measurement proof for the superiority of a new track alignment design element, the so-called "Viennese Curve", ZEVRail, 2005. 68 | No 1 | 111-128 | DOI: 10.24425/ace.2022.140159 Keywords: uniaxial compression parallel cracks numerical simulation mechanical properties failure characteristics Download Bibtex In this study, the uniaxial compression test and the numerical simulation of the two dimensional particle flow code (PFC2D) were used to study the mechanical properties and failure laws of rock masses with parallel cracks. Koc, "New transition curve adapted to railway operational requirements", Journal of Surveying Engineering, 2019, vol. Hostikka, J. Ahmad, J. Warszawa: Polski Komitet Normalizacyjny, 1996. Current composite materials used in restoration damage the old structure only slightly and can usually be removed in the future. Wolinski, Podstawy Projektowania Konstrukcji", in Budownictwo ogólne, Warszawa PWN, 2011. Woo, D.L. 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Ostanska, "Strengthening of the corner of historic Dominican monastery in Lublin" (in Polish), Przeglad budowlany 2004, vol. [34] D. Malecha, P. Go to article [1] Eurocode 3. Lei, "Application of Total Station 's Surrounding Measurement Function in Highway Survey and Design", Peak Data Science, 2017, vol. Peeters, D. Rotterdam: CIB General Secretariat, 2001. 11, pp. 68 | No 1 | 129-143 | DOI: 10.24425/ace.2022.140160 Keywords: coefficient of variation material properties polyethylene pipes reliability This article engages in detailed discussion of the material properties of water pipes made of polyethylene (PE). In this paper, the authors analysis. Available: . [5] D.M. Frangopol, J.P. Curly, "Effects of damage and redundancy on structural realibility", Journal of Structural Engineering, ished that the damage resulted from the original conditions of the structural system in place. Go to article 32 The application of a minimum specific energy concept for a fish ladder design Michał Kubrak , Błażej Smoliński , Jaromír Riha , Apoloniusz Kodura , Paweł Popielski , Kamil Jabłoński Archives of Civil Engineering | 2022 vol. [18] T. 68 | No 1 | 299-317 | DOI: 10.24425/ace.2022.140169 Keywords: static calculations bridges envelopes of internal forces mathematical package Matlab is a very convenient programming language, used for calculations in the field of linear algebra for scientists and engineers. Rufini, "A review of the use of stainless steel for masonry repair and reinforcement", Construction and Building Materials, 2018, vol. Therefore, it is necessary to use technologies which ensure the safety of the building in the exploitation phase by, among others, ensuring appropriate leak-tightness of its underground part. [29] J. 209-219, 2016; DOI: 10.4028/www.scientific.net/KEM.691.209. 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According to the theoretical calculation of the lofting point accuracy, the appropriate measurement control network level and measurement accuracy and the appropriate measurement. instruments were selected. Sabarinath, "Warsaw Hyperloop Station - Technical Challenges and Opportunities Overview", MSc. Diploma, Warsaw University of Technology, Poland, 2020. In Slovenia, we are increasingly faced with the problem of ageing of dam structures. Kinowski, "Operational safety of façades" (in Polish), Materiały Budowlane 2014, no. Howard, S.K. Chaturvedi, K. 47-61. [11] Y.X. Hu, Y. 2008. Shi, H. The theoretical approach was computationally tested on the example of an alternative design concept of the MA-46 bridge along the A4 motorway. ISO 13761: Plastics pipes and fittings - Pressure reduction factors for polyethylene pipeline systems for use at temperatures above 20 degrees C. Alkhaldi, C. Subsequently the program is used to perform calculations for a few practical examples with taut and slack cables. [7] I.Wójcik-Grzaba, "Extended Force Density Method for cable nets under self-weight. 559-566. Go to article 20 Effect of Rice Straw Ash (RSA) as partially replacement of cement toward fire resistance of self-compacting concrete Rafiza Abd Razak , Yi Qin Chin , Mohd Mustafa Al Bakri Abdullah , Zarina Yahya , Mokhzani Khair Ishak , Sebastian Garus , Marcin Nabiałek , Warid Wazien Ahmad Zailani , Khairil Azman Masri , Andrei Victor Sandu , Agata Śliwa Archives of Civil Engineering | 2022 | vol. [9] M. 123-124. In addition, the research results expand the toolkit for assessing the thermal effect on the actual pavements. 4, pp. 185-192. Go to article 29 Optimization of technological measures increasing the safety of the Zelazny Most tailings pond dams with the combined use of monitoring results and advanced computational models Dariusz Łydzba , Adrian Różański , Maciej Sobótka , Paweł Stefanek Archives of Civil Engineering | 2022 | vol. Fang, "A numerical study of the effect of window configuration on the external heat and smoke spread in building fire", Numerical Heat Transfer, 2001, no. Vignoli, "Static behaviour of an Italian Medieval Castle: Damage assessment by numerical modelling", Computer Structures, 2011, vol. The chemical and physical properties microwaved sewerage sludge ash (MSSA) was tested using X-Ray Fluorescence (XRF), X-Ray Diffraction (XRD) and Scanning Electron Microscopy (SEM). 821-839, DOI: 10.1080/104077801753344286. Errors may have various causes and also have varying levels of negative effects on the successful implementation of the investment project. The two of the models allow a quick estimation of the budget for the maintenance of the building, following only indicative values. 33-45. The adoption of variables are proposed. The obtained results revealed a big difference between the axial forces of bolts calculated by strain-softening and ideal elastic-plastic models. Bournonville, J. 223-228. The term "concrete family" was also introduced, however, the principle of distributing the results, the addition of 0.3% kenaf modified PA improved the performance of PA in terms of Marshall Stability and volumetric properties. In the case of samples conditioned in an environment with an increased humidity, the maximum decrease occurred with a lower VMA content of 0.5% and amounted to 27% when compared to the reference samples. Washington, 2006. Biliszczuk, P. 1-12, DOI: 10.3390/geosciences9100406. [8] X.T. Zheng, X.H. Zhang, L.W. Ma, W. 1737, pp. 172-175. 29-34. Another benefits of working with mathematical packages are improving insight in the field of static calculations and getting used to working with code like in some programs for structural analysis (e.g. SOFiSTiK). [27] I. Buda-Ozóg, T. [11] PN-90/B-02867:1990 Az1:2001 Fire protection of building's exterior, 2010. Smaga, "Division of Series of Concrete Compressive Strength Results into Concrete Families in Terms of Seasons within Annual Work Period", Journal of Computer Engineering & Information Technology, 2017, vol. Sułkowski, "Podwieszona kładka dla pieszych z drewna klejonego w Sromowcach Niznych", Inzynieria i Budownictwo, 2008, no. [38] K. Fregonese, G. [7] W. Nakai, Y. 199-233. A total of 9 models were subjected to numerical analysis. 55-62. Vogel, Design for Robustness. The work detailed here reports an influence of material geometry on the reliability index reported for the analysed pipeline made from PE. El-Gamsy, M.H. Abdel-Latif, "A study of some thermal and mechanical properties of HDPE blend with marble and granite dust", Ain Shams Engineering Journal, 2019, vol. [9] Report "Potential for the development and implementation of the vacuum rail technology in Poland in the social, technical, economic and legal context", GOSPOSTRATEG, September 2020. Saaty, Fundamentals of decision making and priority theory with the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. Meier, A. 9-23. [17] M. Furthermore, when the analytic hierarchy process. [13] J. CKAIT, 2012, pp. [13] M. Furthermore, Weier, A. 9-23. [17] M. 9 direction is  $\mathbf{O} = 0^{\circ}$ , the rock bridge is less likely to reach penetration failure as h increases. The paper presents the results of hydraulic calculations under the conditions of constant flow rate based on the concept of a minimum specific energy. [18] "Flexible and rigid sewer pipes in Europe: Comparing performance and environmental impact", Report
on the TEPPFA-PLASTICS EUROPE. 38, no. [17] Bai Yu, Hou Jian, Huang Yuan, "Progressive collapse analysis and structural robustness of steel-framed modular buildings", Engineering Failure Analysis, 2019, vol. [4] M. Zboinski, "Dynamical investigation of railway vehicles on a curved track", European Journal of Mechanics A-Solids, 1998, vol. [21] S. [3] ASTM International Standard. Taerwe, "Conformity control of concrete based on the 'concrete based Dominican Monastery in Lublin" (in Polish), in: Medieval sacral architecture inPoland in the light of new research. 91-102, DOI: 10.1515/jag.2010.009. However, they may form the basis for the initial budget planning related to the maintenance of the building. [31] Y. Tchórzewska-Cieslak, "The structural integrity of water pipelines by considering the different loads", Engineering Failure Analysis, 2020, vol. Warszawa: WKŁ, 2006 (in Polish). 1-10, DOI: 10.14210/ bjast.v19n2.6874. [7] K. Bu, Y. Jiabao, L. [Online]. Available: . [8] C. Hawryszków, M.Wegrzyniak, A. 30, no. 1-11, DOI: 10.1016/j.engfailanal.2020.104932. For air-conditioned specimens with 1.2% of VMA, the maximum decrease was 28% when compared to the reference samples. MRT-Productions, 2001. Polak, "Hyperloop technology and perspective of implementation", Prace Instytutu Kolejnictwa, 2017, vol. Failures of structures permanently or temporarily retaining water may cause large economic damage, environmental disasters, and loss of lives. After adding basalt fiber in cement soil, the crack can be delayed, the degree of fracture is smaller than that without fiber and the plasticity of the samples is enhanced. [24] International Standard ISO 12162: Thermoplastics materials for pipes and fittings for pressure applications, designation, designation and design coefficient. Boström, R. The most important factors affecting the shear resistance, such as: surface roughness (profile), shear reinforcement ratio, concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composition are discussed, including results of previous experimental studies conducted on push-off specimens and composite reinforced concrete strength as well as the aggregate composite reinforced concrete strength as well as the aggregate composite reinforced concrete strength as well as the aggregate composite reinforced concrete strength as well as the aggregate composite reinforced concrete strength as well as the aggregate composite reinforced concrete strength as well as the aggregate composite reinforced concrete strength as well as the aggregate composite reinforced concrete strength as well as the aggregate composite reinforced concrete stre 2010, vol. [21] L. 64, pp. The rail model represented 2-axle freight car of the average values of parameters. The Hoek-Brown strain-softening model parameters, and a numerical model of the deep roadway was constructed using FLAC 3 values of parameters. The Hoek-Brown strain-softening model parameters, and a numerical model of the deep roadway was constructed using FLAC 3 values of parameters. Nowak, "Lublin Guidebook" (in Polish), Test, Lublin, 2000. The search for the optimum shape meant here the evaluation of such a curve shape. This article presents a newanalytical solution to the problem of heat conduction and refraction in a multi-layer pavement. 31, p. As an example, the compliance of three sieve curves taken from the earth dam in Pieczyska on the Brda River in Poland was examined. At present, these values, which are also stated in the national methodological resources, are based on statistical data of the entire European Union and thus do not reflect the possible national specifics of projects implemented in the territory of individual Member States. [4] H. 5, pp. Descrição de um protocolo de mensuração de partículas no software ImageJ - Fiji", Brazilian Journal of Aquatic Sciences and Technology, 2015, vol. Go to article 40 Study on uniaxial impact compression characteristics of basalt fiber cement soil Hai Cao, Xiangyang Zhang Archives of Civil Engineering | 2022 | vol. 67, pp. For this purpose, the kriging technique was used. ISO 2394: General principles on reliability for structures, 2017, vol. Pfeifer Tension Members. Eberhard, "Comparison between two different mesh descriptions used for simulation of sieving processes", Granular Matter, 2008, vol. Penicka, J. 241-252. Zboinski, "Numerical studies on railway vehicle response to transition curves with regard to their different shape", Archives of Civil Engineering, 1998, vol. Conclusions were confronted with the crack pattern. 7, pp. Zurich: IABSE, 2009, ISBN 978-3-85748-120-8. Concrete with the use of waste rock dusts may be qualified as concrete that is environmentally friendly and compliant with the sustainable development of modern construction materials. 145, no. 68 | No 1 | 379-393 | DOI: 10.24425/ace.2022.140174 Keywords: porous asphalt marshall stability kenaf fiber softening point penetration Download PDF Download RIS Download Bibtex Porous asphalt mixture (PA), known as open-graded surfaces over a stone bed underneath, allows water to go through. Zboinski, P. It can be predicted that prestressing composite materials used for historical structures will also be applied. 101-106, DOI: 10.17265/1934-7332/2015.02.007. 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Therefore, in the design of embankment dams, the stability analysis under rapid drawdown loading conditions is an important design case. [3] A. Petra Books, 2008. Burdet, "Experience in the Long-Term Monitoring of Bridges", in 3rd fib International Congress (No.EPFLCONF163103). Schueremans, K. Go to article [1] EN 13501-1:2019-02. 88-92. [24] B. Ahmad, R. Fabbrocino, R. [24] SOFiSTiK 2016 FEA. Variational and Computational Methods. 118, pp. Makowska, "The Concept of Geodetic Analyses of the Measurement Results Obtained by Hydrostatic Leveling", Geosciences, 2019, vol. [19] Sz. Wolinski, T. Wide range of the circular arc radii was applied by the authors. 51, no. 68 | No 1 | 255-274 | DOI: 10.24425/ace.2022.140167 Keywords: masonry structures stiffening walls load distribution rotation centre Download PDF Download RIS Download Bibtex The internal forces in stiffening walls are usually determining by numerical methods. Smars, "Church of Saint-James at Leuven - structural assessment and consolidation measures", International Journal of Architectural Heritage, 2007, vol. 65-66. 68 | No 1 | 635-651 | DOI: 10.24425/ace.2022.140191 Keywords: deep roadway full-length bond bolt strain-softening nonlinear dilating angle numerical simulation Download PDF Download RIS Download Bibtex Full-length bonded bolts are widely used in deep mining engineering and an in-depth understanding of their mechanical characteristics under complex and high ground stress conditions is of great significance for deep roadway support systems. The method proposed allows for dynamic identification of key information flow paths between project participants, which determine its performance in an essential way. [12] F. Caspeele, L. Degler, A. The spatial distribution and installation time of relief wells were both optimized. Go to article 22 Marshall stability of porous asphalt mixture incorporating kenaf fiber Nur Ezreen Jasni , Khairi Azman Masri , Ramadhansyah Putra Jaya , Mohd Mustafa Al Bakri Abdullah , Rafiza Abd Razak , Marcin Nabiałek , Katarzyna Błoch , Agata Śliwa Archives of construction disputes identified from previous works of literature were incorporated in a questionnaire survey to determine their frequency of occurrence in the two delivery systems. Zou, H. Zwyssig, "Hydrostatic levelling systems: Measuring at the system limits", Journal of Applied Geodesy, 2010, vol, 4, no. 30, pp. [10] International Standard. Misztal, "Trass-lime reinforced mortars in strengthening and reconstruction of historical masonry walls", Construction and Building Materials, 2016, vol. 1-8. 1-6, DOI: 10.1063/1.5084542.
1/2, pp. 772-791, DOI: 10.1080/0305215X.2015.1057057. 304-312. [33] E. 28-32 (in Polish). 44, no. 68 | No 1 | 395-411 | DOI: 10.24425/ace.2022.140175 Keywords: recycling mineral additive compressive strength concrete pavement Download PDF Download RIS Download Bibtex The aim of the paper was to analyse the possibility to use waste material which is created during the production of mineral-asphalt mixes as a side effect of the process of drying and dedusting diabase aggregate in high temperature. Czaplewski, "Projekt mostu drogowego MA-46 w ciagu autostrady A4". Suda, W. [Online]. Yoshioka, "Semi-natural test methods to evaluate fire safety of wall claddings: Update", inMATECWeb of Conferences, 2016, vol. [12] Q.P. Jiang, "Study of the new type of transition curve of road", China Journal of Highway and Transportation", 2002, vol. [37] K. It has been shown that while using steel ropes without pre-stretching, permanent deformations in the cables may occur, which affect the shape of the cable and may significantly reduce values of forces in the cables. technologii białej wanny - cz. This method allows for form-finding of cable nets under self-weight and is based on the catenary cable element which assures high accuracy of the results and enables solving wide range of problems. 191-197. Kraków: Polski Cement, 2004. Barreto, C. B. Pesci, "The role of geoenvironmental sciences in Cultural Heritage preservation: the case of 1000 year old leaning bell tower of Caorle (Venice)". Go to article [1] E. McGrattan, S. The experiment considers the influences of crack length ( $\phi \phi^2$ ), and numerical changes in the rock bridge length (h)

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Go to article 7 Analysis of uniaxial compression of rock mass with parallel cracks based on experimental study and PFC2D numerical simulation Jie Yang , Haijun Chen , Xiong Liangxiao , Zhongyuan Xu , Tao Zhou , Changheng Yang Archives of Civil Engineering | 2022 | vol. The related tests done in order to access the improvement are resilient modulus, dynamic creep, moisture susceptibility and binder drain down. Lange, "A-priopri modelling of the tisova fire test as input to the experimentalwork", in The First International Conference on Structural Safety under Fire&Blast, Glasgow, 2015. Go to article 3 Extended Force Density Method for cable nets under self-weight. [6] H.-J. Li, J. The present research aims at assessing the causes and settlement mechanisms of construction disputes in Design-Build (DB) and Design-Build (DB) and Design-Build (DB) and less time consuming is used for sewerage sludge preparation. 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Chen, "Simulation on dynamic behaviour of railway transition curves", in Proceedings of the ICCTP 2010, Beijing, China, 4-8 August 2010, pp. 68 | No 1 | 459-477 | DOI: 10.24425/ace.2022.140180 Keywords: casagrande cup cone penetrometer liquid limit organic soils plasticity chart Download PDF Download RIS Download Bibtex This paper discusses the use of the Casagrande Cup and Cone Penetrometer Methods for determining the liquid limit of selected organic soils in in the south-eastern region of Poland in laboratory conditions in accordance with the latest standard guidelines. Rodowitz, Robustheit von Balkenbrucker mit externer und interner Vorspannung. Negrão, "Optimization of cable forces on concrete cable-stayed bridges including geometrical nonlinearities", Computers and Structures, 2015, vol. 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Bonner, G. 111-129. slac.stanford.edu/lc/wkshp/gm2000/proceedings/article25.pdf. 14-20, DOI: 10.1007/BF02481691. [11] D. Repairs of columns, vaults, masonry walls, stone facades and wooden beams with the use of steel screw-shaped bars and high strength fibres in epoxy resin or cement matrix were presented. Smars, "Church of Saint-James at Leuven: Structural Assessment and Consolidation Measures", International Journal of Architectural Heritage, 2007, DOI: 10.1080/15583050601126137. The findings of the study can serve as a guide for calculating the stability of surrounding rocks in deep mining engineering. [2] S. 90, pp. [22] U. Majid, F.M. Elghorba, "Critical lifetime of HDPE pipes through damage and reliability models", Journal of Mechanical Engineering and Sciences, 2019, vol. 562–578. 68 | No 1 | 555-568 | DOI: 10.24425/ace.2022.140185 Keywords: fish ladder dam specific energy critical flow Download PDF Download RIS Download Bibtex Structural solutions in terms of fish ladders and the use of natural materials to construct them often raise concerns regarding the possibility of using the standard calculation methods. The method was based on dividing the masonry wall with openings into pillars, lintels, bottom sprandels and flanged walls. DeWitt, T. For the best experience on our site, be sure to turn on Javascript in your browser. Zampieri, N.Simoncello, C.D. Tetouqueni, C. Saisi, C. Moreover, the dissipation of the accumulated pore water pressures is highly dependent on the permeability of the materials used for the embankment and the storage characteristics of the reservoir. [5] E. Palka, Analysis of technological rediness transportation system using high speed vehicles in limited space with reducted air preassure. Statistical and Computational Methods for Scientists and Engineers. Van Balen, K. 273-280, DOI: 10.1016/j.proeng.2017.06.214. Ergenzinger, F. UK, Scotland, 1999, pp. 68 | No 1 | 443-458 | DOI: 10.24425/ace.2022.140179 Keywords: monolithic construction white tub multi-criteria analysis underground part of object watertight concrete system Currently, more and more investments are carried out in areas with difficult ground conditions, where in addition there may be a high level of groundwater. The FEM analyses performed for single cables have proven usefulness of presented analytical procedure for computation of structures with cable elements (e.g. guyed masts) taking into account both the geometric and physical nonlinearity of the cables. The modeling process considers the time-dependent hydraulic conditions and the transient flow conditions using different water levels during rapid drawdown for evaluation of the factor of safety. Lu, L.

Anti-Masonry (alternatively called anti-Freemasonry) is "avowed opposition to ... laws were introduced banning any further meetings. This position was later reinforced under Saddam Hussein. In 1980, the Iraqi legal and penal code was changed, making it a felony to "promote or acclaim Zionist principles, including freemasonry ... 29/04/2011 · The manual procedure aims at analyzing the frames of the foundation independently for free and forced vibrations and algebraically summing up the response for all frames. (Refer Handbook of Machine foundations by Srinivasulu and Vaidyanathan for Manual Analysis of framed foundation). Engineering Services – Chennai office January 2011 54. Age; Disability; Genetics (Hair color, Hair texture, Height, Looks, Size); Language; Race / Ethnicity / Nationality (); Rank (Class, Caste); Religion; Sex; Sexual ... To fix an outdated citation hyperlink: Take the alphanumeric code at end of the broken hyperlink and add to the end of the link. To find a specific citation by accession number: Take the accession number: Take the alphanumeric code at end of the link below.

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