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ТЕОРЕТИЧНІ ОСНОВИ ПРОГРАМНОГО КОМПЛЕКСУ ВИЗНАЧЕННЯ ТА ВИКОРИСТАННЯ МАТЕМАТИЧНИХ МОДЕЛЕЙ СКЛАДОВИХ ВАНТАЖНИХ ВАГОНІВ

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У сучасних умовах конкурування різних видів транспорту, як на державному, так і на світовому рівнях, для залізничного транспорту все більшої значущості набуває проблема підвищення його ефективності. Розв'язання такої проблеми вимагає вирішення низки науково-технічних завдань, серед яких пріоритетне місце займає вдосконалення несучих систем вантажних вагонів. Представлено особливості розробленого основного алгоритму універсального програмного комплексу, орієнтованого на вирішення завдань з визначення та використання узагальнених математичних моделей, що описують зміну головних показників складових елементів несучих систем вантажних вагонів від варіювання їх геометричних параметрів. Інтегральну розробку орієнтовано на вирішення задач дослідження несучих систем вантажних вагонів у експлуатації та застосування оптимізаційних процедур при їх проектуванні і модернізації. Наведено приклад використання вже розробленої програми для оптимізаційного пошуку, яка оперує трьохфакторними моделями та буде складовою програмного комплексу, що розробляється. Розроблення програмного комплексу передбачає можливість його оперативного перестроювання для вирішення аналогічних завдань для інших систем і засобів транспортного машинобудування.

Ключові слова: автоматизоване проектування, несучі системи, вагони.

ТЕОРЕТИЧЕСКИЕ ОСНОВЫ ПРОГРАММНОГО КОМПЛЕКСА ОПРЕДЕЛЕНИЯ И ИСПОЛЬЗОВАНИЯ МАТЕМАТИЧЕСКИХ МОДЕЛЕЙ СОСТАВЛЯЮЩИХ ГРУЗОВЫХ ВАГОНОВ

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В современных условиях конкурентирования разных видов транспорта, как на государственном уровне так и на мировом, для железнодорожного транспорта все большей значимости приобретает проблема повышения его эффективности. Разрешение такой проблемы требует решения ряда научно-технических заданий, среди которых приоритетное место занимает усовершенствование несущих систем грузовых вагонов. Представлены особенности разработанного основного алгоритма универсального программного комплекса ориентированного на решение заданий по определению и использованию обобщенных математических моделей, которые описывают изменения главных показателей составных элементов несущих систем грузовых вагонов от варьирования их геометрических параметров. Интегральная разработка ориентирована на решение задач исследования несущих систем грузовых вагонов в эксплуатации и применения оптимизационных процедур при их проектировании и модернизации. Приведен пример использования уже разработанной программы для оптимизационного поиска, которая оперирует трехфакторными моделями и будет составляющей проектируемого программного комплекса. Разработка программного комплекса предусматривает возможность его оперативной адаптации для решения аналогичных заданий для других систем и средств транспортного машиностроения.

Ключевые слова: автоматизированное проектирование, несущие системы, вагоны.

АКТУАЛЬНІСТЬ РОБОТИ. В сучасних умовах конкурування різних видів транспорту, як на державному, так і на світовому рівнях, для залізничного транспорту все більшої значущості набуває проблема підвищення його ефективності. Розв'язання такої проблеми вимагає вирішення низки науково-технічних завдань, які визначені у відповідних цілових Державних програмах. Так, для України – це основні положення Стратегії розвитку залізничного транспорту на період до 2020 року, яку схвалено розпорядженням Кабінету Міністрів України від 16 грудня 2009 року №1555-р. При цьому ефективність перевезення вантажів залізничним транспортом значною мірою залежить від ефективності його рухомого складу. Тому проведення робіт, спрямованих на поліпшення техніко-економічних та експлуатаційних показників вантажних вагонів як найбільш вагомої частини рухомого складу можна характеризувати як своєчасне та актуальне.

При вирішенні завдань з розроблення нових і модернізації вже існуючих конструкцій вантажних вагонів, з метою підвищення їх ефективності, особливе місце займають питання покращення їх несучих систем, як найбільш матеріаломісткої частини. При цьому розв'язання такої складної проблеми вимагає урахування значної кількості діаметрально протилежних, за спрямуванням покращення, критеріїв. Так наприклад вагомий та пріоритетний напрямок підвищення ефективності вагонних конструкцій – це зменшення їх матеріаломісткості, у переважній більшості випадків буде призводити до зміни показників надійності. Тому для успішного проведення науково-дослідних і дослідно-конструкторських робіт необхідно оперувати значним інформаційним масивом даних, який формується цілеспрямованим, описаним та обмеженим об'єкту проектування. На сьогоднішній день багатокритеріальність значущої проблеми та складність відповідних обчислю-

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The Top Books of the Year Teoretychni Problemy Kryminalnopravovo Kvalifikatsi The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have enthralled audiences this year. Teoretychni Problemy Kryminalnopravovo Kvalifikatsi : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Teoretychni Problemy Kryminalnopravovo Kvalifikatsi : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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