A Method for Eletric Vehicle Ownership Forecast Considering Different Economic Factors

Type	Journal Article
Author	Hanwu Luo
Author	Fang Li
Date	2013
Language	English
Library Catalog	Summon 2 (wilkes.summon.serialssolutions.com)
URL	http://wilkes.summon.serialssolutions.com/2.0.0/link/0/eLvHCXMwtV1LT8MwDI7G4wAHxFO8lXvV0fSxrAcOEzA4gECiTIhLlTaJmDYKgg7-Pk6a 8V27RihwO967hdOCHNYxiUgLOOYcRkTwYgQIIsE91mkWonPT_z7pDe6iW47nbrRrpH9K_AgA-hVI-0fwLdKQQDnYAJwBCOA46_MYOBc6R XOSDyq65zrj6IqY3bUhM6cvZV2gKfKIJya4SmlbV92htV4nrZLm4jp5PmpGE8swV_OdP71ghUfMyvTVQNDZhZKk2dQMx9seYqmI4hVfIg2TcJQ zstjUbh3t3NowVfOFnDeTfRg83BAeRAB6sGF9Q80jeRK9dG3t9jyYWDd7htnJFlFKyaKwIMK7zXUEcU6Wm7tLbmBRgNcIY8BeWyQxwZ5bJHH b53INPlFJJaBZsofniuRDbCFPO-4reCev1Q069DB5_nge5pCpoyLMddFT_K-lLtVVK-jNEu3_-xh5aamxzH82XrzNxgBYhrJyIt0ON7Ce3vmd_
Accessed	11/30/2021, 1:21:20 PM
Volume	11
Publication	Telkomnika
DOI	10.11591/telkomnika.v11i4.2544
Issue	4
ISSN	2302-4046
Date Added	11/30/2021, 1:21:20 PM
Modified	11/30/2021, 1:21:20 PM

A to Z Guide to Electric Cars

Type	Magazine Article
Author	Sam Naylor
Date	Aug 23-Sep 19, 2017
Language	English
Library Catalog	ProQuest
URL	https://www.proquest.com/docview/2035637137/citation/EBC93AC1E49940D6PQ/1
Accessed	11/30/2021, 1:20:14 PM
Rights	Copyright Dennis Publishing Ltd. Aug 23-Sep 19, 2017
Extra	Num Pages: 36 Place: London, United Kingdom Publisher: Dennis Publishing Ltd. Section: A TO Z OF EVS
Pages	36
Publication	Auto Express
Issue	1487
ISSN	09548866
Date Added	11/30/2021, 1:20:14 PM
Modified	11/30/2021, 1:20:14 PM

Tags:

Automobile industry, Automobile shows, Electric power, Electric vehicles, Fuel cells, Gasoline, Planning, Transportation--Automobiles

Attachments

- Full Text PDF

Current events: U.S. plugs in to eletric cars

Type	Newspaper Article
Author	Jonathan Fahey
Abstract	Progress Energy is expecting electric car clusters to form in Raleigh, Cary and Asheville, N.C., and around Orlando and Tampa. Duke Energy is expecting the same in Charlotte and Indianapolis. The entire territory of Texas' Austin Energy will likely be an electric vehicle hot spot. Adding an electric vehicle or two to a neighborhood can be like adding another house, and it can stress the equipment that services those houses. "We're talking about doubling the load of a conventional home," says Karl Rabago, who leads Austin Energy's electric vehicle-readiness program. "It's big." The car can be charged faster, and therefore draw more power, when plugged into a home charging station. The first Leafs and Volts can draw 3,300 watts, and both carmakers may boost that to 6,600 watts soon. The Tesla Roadster, an electric sports car with a huge battery, can draw 16,800 watts. That's the equivalent of 280 60-watt light bulbs.
Date	Nov 22, 2010
Language	English
Short Title	Current events
Library Catalog	ProQuest
URL	https://www.proquest.com/docview/1178271183/abstract/762A78F5519C4BB7PQ/1
Accessed	11/30/2021, 1:22:52 PM
Rights	(Copyright 2010 New York Times Company)

Extra	Publisher: Halifax Media Group
Place	Lakeland, Fla., United States
Publication	The Ledger
ISSN	01630288
Date Added	11/30/2021, 1:22:52 PM
Modified	11/30/2021, 1:22:52 PM

Tags:

General Interest Periodicals--United States

Attachments

- Full Text Snapshot

Do eletric cars have a future: [City Edition]

Type	Newspaper Article
Author	Scott Allen
Abstract	Massachusetts Gov. William F. Weld is among the leaders of a national crusade for one solution -- cars that run on batteries instead of gasoline. Electric cars don't even have exhaust pipes, and the engines are nearly as quiet as a bicycle. Under pressure from Massachusetts as well as New York and California, auto makers have spent hundreds of millions of dollars developing cars and trucks that run on batteries. Chrysler plans to make a battery-powered minivan, the EPIC, while General Motors is testing an electric sports car and Ford is working on an electric pickup truck. But electric vehicles have a major drawback -- they can't go far before the batteries need to be recharged. GM's Impact needs to be recharged every 90 miles, half the distance the same car would go on a tank of gas. The Impact also is expected to cost more than a gas-powered model.
Date	Jan 8, 1996
Language	English
Short Title	Do eletric cars have a future
Library Catalog	ProQuest
URL	https://www.proquest.com/docview/290768132/abstract/A4AC333F0C624125PQ/1
Accessed	11/30/2021, 1:22:24 PM
Rights	Copyright Boston Globe Newspaper Jan 8, 1996
Extra	Num Pages: 0 Publisher: Boston Globe Media Partners, LLC
Place	Boston, Mass., United States
Section	SPECIAL SECTION
Pages	9
Publication	Boston Globe (pre-1997 Fulltext)
ISSN	07431791
Date Added	11/30/2021, 1:22:24 PM
Modified	11/30/2021, 1:22:24 PM

Tags:

General Interest Periodicals--United States

Attachments

- Full Text Snapshot

Dynamic and Acoustic Behaviour of Electric Versus Combustion Vehicles

Type	Journal Article
Author	Isabela Mocanu
Author	Claus Aichinger
Author	Martin Czuka
Author	Andreas Fuchs
Author	Sara Gasparoni
Author	Peter Saleh
Abstract	This paper focuses on the methodologies and tools in use to answer the following research question: Is the dynamic and acoustic behaviour of electric vehicles without consequence in terms of a safe integration into current and future road traffic? Our research aims at investigating possible dissimilarities between electric and combustion cars that could reveal potential road safety risks. To this end, vehicle dynamics and acoustic parameters were collected in a field operational trial that was carried out on a dedicated test track, where a professional test driver executed a series of specific driving manoeuvres with three pairs of combustion-electric cars. Preliminary analyses indicate significant differences for the interior acoustics and the external acoustic emissions. Regarding the vehicle dynamics, no direct road safety relevant differences were identified yet.
Date	2016
Language	English

Library Catalog	Summon 2 (wilkes.summon.serialssolutions.com)
URL	https://go.exlibris.link/g15bJGSs
Accessed	11/30/2021, 1:21:20 PM
Extra	Publisher: Elsevier B.V
Volume	14
Pages	2517-2526
Publication	Transportation Research Procedia
DOI	10.1016/j.trpro.2016.05.332
Issue	Journal Article
ISSN	2352-1465
Date Added	11/30/2021, 1:21:20 PM
Modified	11/30/2021, 1:21:20 PM

Tags:

eletric vehicles, Road safety, vehicle acoustics, vehicle dynamics

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Energy consumption of electric vehicles: models' estimation using big data (FCD)

Type	Journal Article
Author	Antonello Ignazio Croce
Author	Giuseppe Musolino
Author	Corrado Rindone
Author	Antonino Vitetta
Abstract	The paper presents a framework to estimate energy consumption of Electric Vehicles (EVs) by combining: (a) the use of models derived from traffic flo of locomotion and (b) the great amount of Floating Cara Data (FCD) from available Information and Communications Technology (ICT) devices. Exist models may be classified into aggregate vs. disaggregate, according to the level of aggregation of variables related to driver, vehicle, and infrastructure. hybrid nature: the aggregate component allows to estimating the values of vehicular speed and acceleration on a road link; the disaggregate one allows variability of EVs' energy consumption inside a spatial-temporal domain. The energy consumption models are estimated using traffic data extracted fro framework is structured into four steps: FCD processing, estimation of vehicular speeds and accelerations, estimation of resistance/energy consumption a pilot study area, composed by the backward (sub-)urban area of the port of "Porto delle Grazie" of Roccella Jonica (South of Italy). The preliminary r methodology allows relative inexpensive and accurate calculation of EVs' energy consumption and that it can be integrated into Intelligent Transportati
Date	2020
Language	English
Short Title	Energy consumption of electric vehicles
Library Catalog	Summon 2 (wilkes.summon.serialssolutions.com)
URL	http://wilkes.summon.serialssolutions.com/2.0.0/link/0/eLvHCXMwnV07T8MwELYQZWBBIECUR-URJIL8aJyYrZSGsiFaUDfLsZ1SkFrUFmb-Bn-8uue8OIc4uSPQrJrQNwHgBGi6k1LaQ1GnqHDyLnWU69lTimy4bDcXjXTyo6sbFij_6oTNrOYfgAqUdI2E-qeeuN1hKiTdzMshqc6IyME9_zIvFnEkS9qAySDsiiBFxPYdo9XtXY1W5BT7gT7aNtqrEEXdKTe-gNTfdRfe9QN3DJhApg_fjWYHL3TYTg9_dU2h7 6b3Mc4nY-wbRfFp1r0-20MPWW_Y7UfVloSIMipElFppEpEYTaTRTqSJtakGGC-M4z7dMZwynXMurLUyJs4PxGO2XRjwbG4h29tH69PZ1B0g7K96B6ZapG2bkBwUbA03ReLTQpM30XktD_VaDsNQdZfYswriU158inAF4msiUctM Vn0iO0fpy_uZO0AZUHS9u0QrW0UKNTicb9uF0O7r6Bgjdv-0
Accessed	11/30/2021, 1:21:20 PM
Extra	Publisher: Elsevier B.V
Volume	47
Pages	211-218
Publication	Transportation Research Procedia
DOI	10.1016/j.trpro.2020.03.091
Issue	Journal Article
ISSN	2352-1465
Date Added	11/30/2021, 1:21:20 PM
Modified	11/30/2021, 1:21:20 PM

Tags:

Eletric Vehicles (EVs), energy consumption models, Floating Car Data (FCD), passenger mobility

---

Energy consumption of electric vehicles: models' estimation using big data (FCD)

Type	Journal Article
Author	Antonello Ignazio Croce
Author	Giuseppe Musolino
Author	Corrado Rindone
Author	Antonino Vitetta
Abstract	The paper presents a framework to estimate energy consumption of Electric Vehicles (EVs) by combining: (a) the use of models derived from traffic flow theory and from mechanics of locomotion and (b) the great amount of Floating Cara Data (FCD) from available Information and Communications Technology (ICT) devices. Existing energy consumption models may be classified into aggregate vs. disaggregate, according to the level of aggregation of variables related to driver, vehicle, and infrastructure. The proposed models have a

hybrid nature: the aggregate component allows to estimating the values of vehicular speed and acceleration on a road link; the disaggregate one allows to estimating the discrete variability of EVs' energy consumption inside a spatial-temporal domain. The energy consumption models are estimated using traffic data extracted from FCD. The proposed framework is structured into four steps: FCD processing, estimation of vehicular speeds and accelerations, estimation of resistance/energy consumption. The framework is applied in a pilot study area, composed by the backward (sub-)urban area of the port of "Porto delle Grazie" of Roccella Jonica (South of Italy). The preliminary results show that the methodology allows relative inexpensive and accurate calculation of EVs' energy consumption and that it can be integrated into Intelligent Transportation System (ITS) applications.

Date January 1, 2020
Language en
Short Title Energy consumption of electric vehicles
Library Catalog ScienceDirect
URL https://www.sciencedirect.com/science/article/pii/S2352146520302866
Accessed 11/30/2021, 1:23:53 PM
Volume 47
Pages 211-218
Publication Transportation Research Procedia
Series 22nd EURO Working Group on Transportation Meeting, EWGT 2019, 18th – 20th September 2019, Barcelona, Spain
DOI 10.1016/j.trpro.2020.03.091
Journal Abbr Transportation Research Procedia
ISSN 2352-1465
Date Added 11/30/2021, 1:23:53 PM
Modified 11/30/2021, 1:23:53 PM

Tags:

Eletric Vehicles (EVs), energy consumption models, Floating Car Data (FCD), passenger mobility

Attachments

- ScienceDirect Full Text PDF

Impacts of the 579 act in Brazilian eletric sector companies' stock returns/Os impactos da medida provisoria 579 nos retornos das acoes de companhias de energia eletrica/El impacto de la medida provisional 579 en la rentabilidad de las acciones de empresas de electricidad

Type Journal Article
Author Thais Nery Assuncao
Author Renata Turola Takamatsu
Author Valeria Gama Fully Bressan
Abstract This research aims to analyze the announcement impact of the 579 act in stock prices in the Brazilian electricity sector. The way the market reacts to information supports investors and assists assets' analysis and the process of investment portfolio formation. An event study was conducted to assess whether the stocks' prices and returns have changed after the information was released to the market. The results provided evidence of a semi-strong market efficiency, since prices reacted to the publicly available information, assimilating the new information and then regressing to normality. Specifically, there was, on average, a negative reaction, with a significant drop in prices and stock returns two days after the announcement. However, after the third day, the information was absorbed by the market, and we no longer could detect a negative abnormal returns. Thus, we can conclude that the 579 act was considered a relevant piece of information about the electricity sector, changing stock returns behavior when it was released. Keywords: 579 Act, Abnormal Returns, Event Study. Esta pesquisa propoe analisar o impacto do anuncio da Medida Provisoria 579 de setembro de 2012 nos precos das acoes do setor de energia eletrica. A forma que o mercado reage as informacoes ampara os investidores, auxilia na analise de retorno das acoes e formacao de carteira de investimentos. A metodologia de estudo de eventos foi selecionada para avaliar se os precos e retornos das acoes foram alterados apos a divulgacao da medida provisoria ao mercado. Os resultados obtidos ofereceram indicios de reacao do mercado na forma de eficiencia semiforte, uma vez que os precos das acoes negociadas no mercado reagiram a informacao recebida disponivel ao publico, o mercado absorveu a informacao, e posteriormente voltou a sua normalidade. Mais especificamente, observou-se uma reacao media negativa frente ao anuncio da Medida, em que foi possivel detectar uma queda expressiva nos precos e retorno das acoes nos dois dias posteriores ao anuncio. Contudo, a partir do terceiro dia, houve uma absorcao da informacao, e os retornos anormais nao foram mais significativos. Desta forma, pode-se concluir que o cumprimento da Medida Provisoria foi considerado uma informacao relevante ao setor de energia eletrica, alterando o comportamento dos retornos das acoes na data de sua divulgacao. Palavras-Chave: Medida Provisoria 579. Retornos anormais. Estudo de Eventos. Esta investigacion analizo el impacto de la Medida Provisional 579, de septiembre de 2012, en los precios de las acciones del sector electrico. La forma en que el mercado reacciona a la informacion resguarda a los inversionistas, auxilia en el analisis de rentabilidad de las acciones y en la formacion de carteras de inversion. La metodologia de estudio de eventos fue utilizada para evaluar si los precios y las rentabilidades de las acciones cambiaron despues de la divulgacion de la medida provisional al mercado. Los resultados indican una reaccion del mercado de acuerdo con la forma de eficiencia semi-fuerte, ya que los precios de las acciones que cotizan en el mercado reaccionaron a tal informacion divulgada publicamente, luego el mercado absorbio la informacion y posteriormente retorno a su comportamiento normal. Mas especificamente, hubo una reaccion promedio negativa frente al anuncio de la Medida, donde fue posible detectar una caida significativa en los precios y en la rentabilidad de las acciones en los dos dias siguientes al anuncio. Sin embargo, desde el tercer dia, hubo una absorcion de informacion, y los retornos anormales ya no eran significativos. Por lo tanto, se puede concluir que el cumplimiento de la Medida Provisional fue considerado una informacion relevante para el sector electrico, cambiando el comportamiento de las rentabilidades de las acciones en la fecha de su divulgacion. Palabras clave: Medida Provisional 579, Rentabilidad Anormal, Estudio de Eventos.
Date 2015
Language Portuguese
Library Catalog Summon 2 (wilkes.summon.serialssolutions.com)

URL https://go.exlibris.link/qwv4YHHt
Accessed 11/30/2021, 1:21:20 PM
Extra Publisher: Universidade do Estado da Bahia
Volume 5
Pages 38
Publication Revista Gestão, finanças e contabilidade
Issue 2
ISSN 2238-5320
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Tags:

Acciones, Administracion, Analisis, Capitalizacion de mercado, Divulgacion de informacion financiera, Efectos secundarios y adversos, Empresas electrocomerciales, Finanzas, Inversiones, Mercados de futuros, Mercados financieros, Negociacion de valores, Servicios de informacion, Tecnica, Valoracion, Valores

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INVESTIGATION OF MAGNETIC PROPERTIES FOR DIFFERENT COIL SIZES OF DYNAMIC WIRELESS CHARGING PADS FOR ELECTRIC VEHICLES (EV)

Type Journal Article
Author Syasya Azra Zaini
Author Siti Hajar Yusoff
Author Amira Aziera Abdullah
Author Sheroz Khan
Author Faridah Abd Rahman
Author Nadia Nazieha Nanda
Abstract Electric vehicles (EV) have been introduced in the recent years due to public awareness of the effect of gas emission from traditional cars and the extin convenient and saves charging time since it charges the electric vehicle while moving. The main challenge of this process is to maintain a high amount There are various designs of coil for wireless charging of electric vehicles (EV). Among the most common designs are circular pad (CP), rectangular pa simplicity in design and good electrical and magnetic properties. Three different coil pair sizes are tested to find the most suitable coil pair for the prim investigated to obtain the highest value of magnetic flux. The geometry design of the pads and simulation was done using COMSOL Multiphysics soft primary and secondary coils have the same value. ABSTRAK: Kenderaan Elektrik (EV) telah diperkenalkan sejak beberapa tahun ini hasil kesedaran a tanpa wayar bagi mengecas EV. Ini kerana pengecas ini lebih sesuai dan jimat masa mengecas kerana kenderaan elektrik dicas ketika bergerak. Cabara faktor bagi mendapatkan pemindahan tenaga yang tinggi adalah saiz gegelung wayar [1]. Terdapat pelbagai bentuk gegelung bagi mengecas kenderaan berganda-D (DDQP). Kajian ini telah menggunakan pad membulat (CP) kerana reka bentuknya yang ringkas dan ia mempunyai sifat elektrikal dan ma sesuai di mana ianya mempunyai pemindahan tenaga maksima dan paling kurang sensitif pada ketidakjajaran. Sifat magnet telah diuji bagi mendapatk Hasil simulasi mendapati pasangan gegelung yang tidak simetri telah menghasilkan kekuatan magnetik tertinggi apabila diameter luaran gegelung prim
Date 2020
Language English
Library Catalog Summon 2 (wilkes.summon.serialssolutions.com)
URL http://wilkes.summon.serialssolutions.com/2.0.0/link/0/eLvHCXMwrV3Pb9MwFLZQtQMc0MYPUTaQj0Mobew4cXIMaZJGgrRKQyhcIsd2pDKpQ ioTqI6IF0RrafK2o8M1X4jyh2zpo1v7moPKXSRGzbMEWx7kfRjp0pSYwB2OCRBxcHEUoD7TuOLNkph47iK1AsahJoQzvnstoAMPGqkz2MgYW 2WiUsmP0dPQmcWyXfYIe6f0z9OSAY_A5uinKJt3URT5cRuFVhj_FeZnWRYLXJomvqsEhxBAL4kWRZWmVljVOVsVHvCm-QQfIL76WMWwW_mLqawDSOFnGVV6UOV7HCzsU2pO6ApkmXRYJCOHztHn3An3O0jpZOmPBBQesfhg4grhKEpP56QoedZKSoDd8hQyCOp mBA_itpOLGHBlCNdlSN9n-q8fohJjlFj6mJuIdLmDM0-fXzt36DjiCuudBXbwet-wP-ac_-
Accessed 11/30/2021, 1:21:20 PM
Extra Publisher: IIUM Press, International Islamic University Malaysia
Volume 21
Pages 23-32
Publication IIUM engineering journal
DOI 10.31436/iiumej.v21i1.1108
Issue 1
ISSN 1511-788X
Date Added 11/30/2021, 1:21:20 PM
Modified 11/30/2021, 1:21:20 PM

Tags:

circular coil, electric vehicle (ev), inductive charging, magnetic properties, wireless power transfer

Attachments

- Full Text

Matlab-based modeling, simulation and design package for Eletric, Hydraulic and Flywheel hybrid powertrains of a city bus

Type Journal Article
Author M. Esfahanian

Author A. Safaei
Author H. Nehzati
Author V. Esfahanian
Author M. M. Tehrani

Abstract In this paper a package for designing, modelling and simulation of three hybrid powertrains are presented. These powertrains are Electric hybrid, Hydra powertrains include the energy storage system components, the secondary power converter and also the powertrain configuration. The O457 city bus is powertrain which is based on the power requirements of the bus in any driving condition is presented. Then, the powertrains modelling using MATLAE forward and resemble the real world driving conditions. Each model has the blocks for the main components of the corresponding propulsion system. T components efficiency in each powertrain. Moreover, there is a block in each hybrid powertrain model for the energy management. Finally, the simulati The results indicate that the electric hybrid powertrain has the most effect on reducing the bus fuel consumption. But regarding the fabrication expenses recommended.[PUBLICATION ABSTRACT];Byline: M. Esfahanian (1), A. Safaei (2), H. Nehzati (2), V. Esfahanian (2), M. M. Tehrani (3) Keywords hydraulic hybrid city bus; Powertrain design and modeling In this paper a package for designing, modelling and simulation of three hybrid powertrains Flywheel hybrid. The differences among the proposed hybrid powertrains include the energy storage system components, the secondary power converte benchmark vehicle. At first, the design process for each hybrid powertrain which is based on the power requirements of the bus in any driving condition powerful simulating tool is presented. The models are feed-forward and resemble the real world driving conditions. Each model has the blocks for the r stage in the modeling process is implementing of the components efficiency in each powertrain. Moreover, there is a block in each hybrid powertrain m usefulness of the hybrid powertrains are presented. The results indicate that the electric hybrid powertrain has the most effect on reducing the bus fuel c complexity, the hydraulic hybrid powertrain is recommended. Author Affiliation: (1) Department of Mechanical Engineering, Isfahan University of Tec of Tehran, Tehran, 11155-4563, Iran (3) Department of Automotive Engineering, Iran University of Science and Technology, Tehran, 16846-13114, Iran Accepted Date: 03/11/2013 Online Date: 02/10/2014;In this paper a package for designing, modelling and simulation of three hybrid powertrains are pr hybrid. The differences among the proposed hybrid powertrains include the energy storage system components, the secondary power converter and also vehicle. At first, the design process for each hybrid powertrain which is based on the power requirements of the bus in any driving condition is presente simulating tool is presented. The models are feed-forward and resemble the real world driving conditions. Each model has the blocks for the main comp modeling process is implementing of the components efficiency in each powertrain. Moreover, there is a block in each hybrid powertrain model for the of the hybrid powertrains are presented. The results indicate that the electric hybrid powertrain has the most effect on reducing the bus fuel consumption hydraulic hybrid powertrain is recommended.;

Date 2014
Language English
Library Catalog Summon 2 (wilkes.summon.serialssolutions.com)
URL http://wilkes.summon.serialssolutions.com/2.0.0/link/0/eLvHCXMwpV1JT9wwFH5i6aE9tKWLSKHIB6RKLaGxs58qipgiVUhIpdvJcrzAiGFmyswIzb IlmZBpVOMOEXZ1rYyruVXcWjyXWyNUTqnEnw7Fj7Pi22n-JQQXUmpMgLuTkl50m5GmVfP35HmUWY3u1Ifxr5j6SNF-a2iqsQrrHHUd9TQ4Ea mQ41JcUOUVRGksfVPU21LK_vb5wWQR_1nsB5N3Q0dS_R1-2bq9vE6qVKj__1gU_hcTBZ2UHLYxuwYofP4NGdQobPYX6ipshOMelEw3x3HTy_xyb9q9AejKmhYcaHizB00y9RjDG0l9nRgFp66T12PDfXajboaC 0sJmzkmGIavQfWzCYv4Gvv6OzwOA5NHWKd8WSKfz1pGrTaLG9UnejSmrJSpbB4tIWxnDe0LJspZA2eam60TZvcaS0cT7lr0vQlrA1HQ7sJrDSml doFdlT8FVUIUsepFWG8hAN3gi2O7hkmPATucAqgncdZ9y5_PfXLqhvx-hpBBEFaCXRjo2LYPcPak_X3sJzWRDpq3-PcAse0k1tSOI2rE2vZ_Y1PGg

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Extra Place: Heidelberg Publisher: The Korean Society of Automotive Engineers
Volume 15
Pages 1001-1013
Publication International journal of automotive technology
DOI 10.1007/s12239-014-0105-8
Issue 6
ISSN 1229-9138
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Tags:

Analysis, Article, Automotive Engineering, Buses, Design and construction, Efficiency, Energy storage, Engineering, Hybrid vehicles, Hydraulics, Mechanical engineering, Packaging, Parallel flywheel hybrid city bus, Parallel hydraulic hybrid city bus, Power, Powertrain, Powertrain design and modeling, Series electric hybrid city bus, Simulation, Studies

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Matlab-based modeling, simulation and design package for Eletric, Hydraulic and Flywheel hybrid powertrains of a city bus

Type Journal Article
Author M. Esfahanian
Author A. Safaei
Author H. Nehzati
Author V. Esfahanian
Author M. M. Tehrani

Abstract In this paper a package for designing, modelling and simulation of three hybrid powertrains are presented. These powertrains are Electric hybrid, Hydraulic hybrid and Flywheel hybrid. The differences among the proposed hybrid powertrains include the energy storage system components, the secondary power converter and also the powertrain configuration. The O457 city bus is considered as the benchmark vehicle. At first, the design process for each hybrid powertrain which is based on the power requirements of the bus in any driving condition is presented. Then, the powertrains modelling using MATLAB/Simulink as a powerful simulating tool is presented. The models are feed-forward and resemble the real world driving conditions. Each model has the blocks for the main components of the corresponding propulsion system. The most important stage in the modeling process is implementing of the components efficiency in each powertrain. Moreover, there is a block in each hybrid powertrain model for the energy management. Finally, the simulation results for comparing the usefulness of the hybrid powertrains are presented. The results indicate that the electric hybrid powertrain has the most effect on reducing the bus fuel consumption. But regarding the fabrication expenses and manufacturing complexity, the hydraulic hybrid powertrain is recommended.[PUBLICATION ABSTRACT]

Date Oct 2014

Language	English
Library Catalog	ProQuest
URL	https://www.proquest.com/docview/1566749132/abstract/27573313E63A4A35PQ/1
Accessed	11/30/2021, 1:23:18 PM
Rights	The Korean Society of Automotive Engineers and Springer-Verlag Berlin Heidelberg 2014
Extra	Num Pages: 1001-1013 Place: Dordrecht, Netherlands Publisher: Springer Nature B.V.
Volume	15
Pages	1001-1013
Publication	International Journal of Automotive Technology
DOI	http://dx.doi.org/10.1007/s12239-014-0105-8
Issue	6
ISSN	12299138
Date Added	11/30/2021, 1:23:18 PM
Modified	11/30/2021, 1:23:18 PM

Tags:

Automotive engineering, Buses, Efficiency, Energy storage, Engineering, Hybrid vehicles, Hydraulics, Mechanical engineering, Power, Powertrain, Simulation, Studies, Transportation--Automobiles

Attachments

- Full Text PDF

Providing Of Annual Maintenance Contract Of Mitsubishi Eletric Air Conditioning System To Dgp Office, Mangalagiri Of Guntur District [Tender documents : T453607972]

Type	Journal Article
Date	2020
Language	English
Short Title	Providing Of Annual Maintenance Contract Of Mitsubishi Eletric Air Conditioning System To Dgp Office, Mangalagiri Of Guntur District [Tender documents
Library Catalog	Summon 2 (wilkes.summon.serialssolutions.com)
URL	https://go.exlibris.link/4JstRSWN
Accessed	11/30/2021, 1:21:20 PM
Extra	Place: London Publisher: Albawaba (London) Ltd
Publication	MENA Report
Issue	Journal, Electronic
Date Added	11/30/2021, 1:21:20 PM
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Tags:

Air conditioning

The electric car: development and future of battery, hybrid and fuel-cell cars

Type	Book
Author	M. H. Westbrook
Date	2001
Language	English
Short Title	The electric car
Library Catalog	Summon 2 (wilkes.summon.serialssolutions.com)
URL	http://wilkes.summon.serialssolutions.com/2.0.0/link/0/eLvHCXMwY2AwNtIz0EUrE0ySgdV4GjCG0ywtE1PSLA1TEw1TU4FipqkpRommoK3E7s5
Accessed	11/30/2021, 1:21:20 PM
Volume	38
Place	Warrendale, PA;London;
Publisher	Institution of Electrical Engineers
ISBN	978-0-85296-013-4
Series Number	Book, Whole
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Tags:

Batteries, Electric automobiles, History, Hybrid electric cars

Notes:

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