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A dynamic model of the generator temperature may leave better monitoring of the generator condition, and thus more flexible operation

https://easychair.org/smart-program/SIMS2020/2020-09-23.html

...to both electricity and raw material costs, as well as capital cost. 10:50K haled Aleikish, Thomas Øyvang and Bernt LieHybrid model for fast solutio n of thermal synchronous generator with heat exchangerPRESENTER: Ber nt LieABSTRACT. Overheating of synchronous generators may lead to sho rtened generator lifespan, thus strict constraints are imposed on their oper ation. **A dynamic model of the generator temperature may** allow for **bet ter monitoring of the generator condition, and thus more flexible opera tion.** Øyvang (2018) considered the combination of a thermal model of an air-cooled generator with advanced control to help ride-through grid probl ems: By implementing a model-based online monitoring and control syste m, the temperature development in critical locations in the synchronous ge nerator were kept under control. In addition, exploiting the generator's...

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Within the past, the mix of a thermal model of an air-cooled generator with advanced control has been considered to assist ride-through grid problems: By implementing a model-based online monitoring and system, the temperature development in critical locations within the synchronous generator were kept in restraint

https://easychair.org/smart-program/SIMS2020/2020-09-23.html

...fast solution of thermal synchronous generator with heat exchangerPRE SENTER: Bernt LieABSTRACT. Overheating of synchronous generators m ay lead to shortened generator lifespan, thus strict constraints are imposed on their operation. A dynamic model of the generator temperature may all ow for better monitoring of the generator condition, and thus more flexible operation. (2018) **considered the** combination **of a thermal model of an a ir cooled generator with advanced control to** help **ride through grid pro blems: By implementing a model based online monitoring and control system, the temperature development in critical locations in the synchr onous generator were kept** under **control. In** addition, exploiting **the** gen erator's full thermal capacity lead to improved performance. Pandey et al. (2019) considered various improved thermal generator models, in combinat ion with model fitting and state estimation. Still, the studies so far have us ed simple, counter-current heat exchanger models with constant Stanton numbers, which allows for an analytic, explicit heat exchanger...

Match #3 78% similar

Further work has considered various improved thermal generator models, together with model fitting and state estimation [2]

https://easychair.org/smart-program/SIMS2020/2020-09-23.html

...a thermal model of an air-cooled generator with advanced control to hel p ride-through grid problems: By implementing a model-based online mon itoring and control system, the temperature development in critical locatio ns in the synchronous generator were kept under control. In addition, expl oiting the generator's full thermal capacity lead to improved performance. al. (2019) **considered various improved thermal generator models,** in co mbination **with model fitting and state estimation.** the studies so far hav e used simple, counter-current heat exchanger models with constant Stant on numbers, which allows for an analytic, explicit heat exchanger descripti on. In practice, heat capacity and heat transfer coefficients in the heat exch anger vary with fluid temperature and velocity. To handle this case, it is ne cessary...

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Still, the studies thus far have used simple, counter-current heat exchanger models with constant Stanton numbers, which allows for an analytic, explicit heat exchanger models description

https://easychair.org/smart-program/SIMS2020/2020-09-23.html

...model-based online monitoring and control system, the temperature dev elopment in critical locations in the synchronous generator were kept unde r control. In addition, exploiting the generator's full thermal capacity lead t o improved performance. Pandey et al. (2019) considered various improve d thermal generator models, in combination with model fitting and state es timation. **Still, the studies** so **far have used simple, counter current heat exchanger models with constant Stanton numbers, which allows for a n analytic, explicit heat exchanger description.** heat capacity and heat tr ansfer coefficients in the heat exchanger vary with fluid temperature and v elocity. To handle this case, it is necessary to solve a nonlinear two-point b oundary value problem numerically for each time step when solving the th ermal synchronous generator model. The iterative solution of the boundary -value...

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www.usn.no The University of South-Eastern Norway takes no responsibility for the results and conclusions in this student report

https://home.usn.no/finnh/courses/iia1117/2018/report_template/project...

...Sciences Campus Porsgrunn Course: IIA1117 Control Engineering- Proje ct, Fall 2018 Title: Title Project group: Group code Group participants: First participant Second participant Third participant Teacher: Name Date of rep ort submission: Summary: Enter your summary here; typical outline: short background info- project objective(s)- method(s)- conclusion(s) [image:] us n. **no The University** College **of** Southeast **Norway takes no responsibilit y for the results and conclusions in this student report.** _Toc46041812 1]Preface Type the preface here Porsgrunn, Date Name 1 Name 2 Name 3 Name 4 Name 5 Name 6 [bookmark: _Toc460418122]Nomenclature List symbols alphabetically, with explanations and units [bookmark: _Toc4604 18123]Contents Preface 3 Nomenclature 4 Contents 4 1 Introduction 4 1. 1 xxx 4 1. 2 xxx etc 4 2...

Match #6 66% similar

I would want to express my gratitude to my family for their unwavering support and affection

https://etd.lib.metu.edu.tr/upload/12622955/index.pdf

...have been possible without his continuous support and motivation. I wou ld like to thank my thesis committee members, Asst. Prof. Gökberk Cinbiş, and Asst. Prof. Hamdi Dibeklioğlu for their valuable feedback. I would like t o thank ImageLab members, particularly Salih Karagöz, for all their help an d contribution to this work. **I would** like **to express my gratitude to my fa mily and** friends **for their** continuous **support. I would** like **to** of my teach ers and commanders in Işıklar Askeri Hava Lisesi and Hava Harp Okulu for nurturing me along the way. I would like to dedicate this thesis to my innoc ent brothers in arms who are punished with a life imprisonment. x TABLE OF CONTENTS ABSTRACT. .. . .

Match #7 63% similar

1 Synchronous Generator 11 2 Thermal Model of an Air -cooled Synchronous Generator with ideal and Non-ideal Heat Exchanger Model 13 2

https://ep.liu.se/ecp/176/013/SIMS2020_article_ecp2017691.pdf

...model was hard-coded in the design matrix, which also provides a good enough prediction accuracy. The simulation time of the final hybrid models, the combination of the correction terms of linear/nonlinear regression with the analytic expressions of equations 1 and 2, is presented in Table 8 for t he heat **exchanger model, and** in Table 9 for the **thermal model of an air cooled synchronous generator.** The hybrid solutions **of** the **heat exchang er** sub **model** similar execution speeds and are much faster than the nume ric solution of the nonlinear two-point boundary value problem. Similarly, t he simulation time of the thermal model of an air-cooled synchronous gen erator was significantly reduced by using the hybrid models. 6 Conclusion s In this paper, the thermal model of the counter-current...

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1 Analytic vs. Numeric Solution of the Counter-current Heat Exchanger Model 47 4

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...demonstrate that increasing combined bio-tracers results in stronger disc riminatory power. We argue such applications likely even work for such hi ghly mobile and critical fisheries as tuna.... Nonlinear regression of the cou nter-current heat exchanger model is implemented in Julia using the packa ge Flux (Innes, 2018;. Moreover, the nonlinear mapping between **the anal ytic solution of the** ideal **counter current heat exchanger model** and **the numeric** solution of the non-ideal heat exchanger model (the case of temp erature dependence in the specific heat capacities of air and water) is achie ved using the logistic (also known 6 Both SEE andR 2 are rounded to the 5 th digit after the decimal place.... Hybrid Model for Fast Solution of...

Match #9 85% similar

The linear and nonlinear regression of the counter-current heat exchanger model is implemented in Julia in Chapter 3

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...of concept to a limited data set of 90 individuals of highly mobile Sockey e salmon that originate from 3 different areas. Using 17 measured bio-trac ers, we demonstrate that increasing combined bio-tracers results in strong er discriminatory power. We argue such applications likely even work for s uch highly mobile and critical tuna.... **Nonlinear regression of the counter current heat exchanger model is implemented in Julia** using **the** (Innes, 2018;. Moreover, the nonlinear mapping between the analytic solution of t he ideal counter-current heat exchanger model and the numeric solution of the non-ideal heat exchanger model (the case of temperature dependence in the specific heat capacities of air and water) is achieved using the logisti c (also known 6 Both...

Match #10 61% similar

Generally, these losses are because of the friction of bearings, bushings and are proportional to the rotor speed

https://www.groschopp.com/efficiency-and-losses-in-electric-motors

...A more efficient motor will cost less to operate. It could run cooler or coul d convert more power per volume than a similar sized motor. What are co mmon sources of electric motor efficiency losses? Friction Losses These lo sses are attributed to the force it takes to overcome the drag **rotor** or arma ture. Examples **of friction losses are friction of bearings, bushings** or bru shes in a universal or brushed type DC motor. In general, **the** frictional **loss es are proportional to the rotor speed.** Windage Losses In an air cooled motor, these losses are caused by turbulence in the air acting against the r otation of the rotor. Examples of these are armature slots or geometries th at are not cylindrical or fans. Windage losses are estimated as being propo rtional to the cube of the rotor...

Match #11 78% similar

They are adequate the square of the current multiplied by the resistance of the trial where the current flows

https://www.groschopp.com/efficiency-and-losses-in-electric-motors

...currents to flow. Motor designs use laminated cores of steel to reduce th e area available for the eddy currents to flow because the electrons are un able to jump from lamination to lamination. Ohmic Losses Ohmic losses or I2R losses are due to current flowing through the conductors of the motor. losses **are** equal to **the square of the current multiplied by the resistanc e of the** path through which **the current flows.** Stray Losses Stray losses are generally categorized as losses that don't correlate to the losses explai ned above. This is sometimes used as a safety factor in design calculations . Regardless of motor type, the described losses cannot be completely desi gned out. The design engineer needs to look at several possible...

Match #12 91% similar

Stray losses are generally categorized as losses that do not correlate to the explained losses above

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...are unable to jump from lamination to lamination. Ohmic Losses Ohmic lo sses or I2R losses are due to current flowing through the conductors of the motor. These losses are equal to the square of the current multiplied by th e resistance of the path through which the current flows. Stray **Losses Str ay losses are generally categorized as losses that** don't **correlate to the losses explained above.** used as a safety factor in design calculations. Re gardless of motor type, the described losses cannot be completely designe d out. The design engineer needs to look at several possible designs in ord er to optimize the motor for the most efficient operation. Trade-offs like mi nimizing ohmic losses could cause increased iron...

Match #13 79% similar

Heat exchanger They are the system want to transfer heat between two or more fluids

https://en.wikipedia.org/wiki/Heat_exchanger

...Equipment used to transfer heat between fluids Tubular heat exchanger Partial view into inlet plenum of shell and tube heat exchanger of a refrige rant based chiller for providing air-conditioning to a building A **heat excha nger** is a **system** used **to transfer heat between two or more fluids. Hea t** are used in both cooling and heating processes.[1] The fluids may be sep arated by a solid wall to prevent mixing or they may be in direct contact.[2] They are widely used in space heating, refrigeration, air conditioning, powe r stations, chemical plants, petrochemical plants, petroleum refineries, natu ral-gas processing, and sewage treatment....

Match #14 74% similar

They are both using cooling and heating processes

https://openei.org/wiki/Definition:Heat_exchanger

...Information Heat exchanger A device for transferring thermal energy (he at) from one fluid (liquid or gas) to another, when the two fluids are physic ally separated; such as a radiator.[1][2] View on Wikipedia Wikipedia Defi nition A heat exchanger is a system used to transfer heat between two or more fluids. exchangers **are** used in **both cooling and heating processes.** The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact. They are widely used in space heating, refrigeration, ai r conditioning, power stations, chemical plants, petrochemical plants, petro leum refineries, natural-gas processing, and sewage treatment. The classic example of a heat exchanger is...

Match #15 80% similar

The fluids are separated by a solid wall preventing mixing

https://www.chemeurope.com/en/encyclopedia/Heat_exchanger.html

...Register free of charge Login Login Keep logged in Forgot your password ? Cookies deactivated To use all functions of this page, please activate coo kies in your browser. Login Register DeutschEnglishFrançaisEspañol Hom eEncyclopediaHeat_exchanger Heat exchanger A heat exchanger is a devi ce built for efficient heat transfer from one fluid to another, **the fluids are s eparated by a solid wall** or the fluids are directly contacted.[1] They are widely used in petroleum refineries, chemical plants, petrochemical plants, natural gas processing, refrigeration, power plants, air conditioning and sp ace heating. One common example of a heat exchanger is the radiator in a car, in which a hot engine-cooling fluid, like antifreeze,...

Match #16 76% similar

They are widely used in Power stations, chemical plants, air conditioning, petroleum refineries, etc

https://en.wikipedia.org/wiki/Heat_exchanger

...for providing air-conditioning to a building A heat exchanger is a system used to transfer heat between two or more fluids. Heat exchangers are us ed in both cooling and heating processes.[1] The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact.[2] **They are widely used in** space heating, refrigeration, **air conditioning, power st ations, chemical plants,** petrochemical **plants, petroleum refineries,** gas processing, and sewage treatment. The classic example of a heat exchang er is found in an internal combustion engine in which a circulating fluid kno wn as engine coolant flows through radiator coils and air flows past the co ils, which cools the coolant and heats the incoming air. Another example is ...

Match #17 75% similar

Figure 12:Shell and tube heat exchanger It consists of a shell with a bundle of tubes inside it

https://artsandculture.google.com/entity/shell-and-tube-heat-exchanger/...

...movementsHistorical eventsHistorical figuresPlacesAboutView activityS end feedbackPrivacy& TermsHomeExploreNearbyFavoritesSign inLoading. .. Shell and tube heat exchangerA shell and tube heat exchanger is a class of heat exchanger designs. It is the most common type of heat exchanger i n oil refineries and other large chemical processes, and is suited for higher-pressure applications. As this type **of heat exchanger consists of a shell with a bundle of tubes inside it.** fluid runs through the tubes, and another fluid flows over the tubes to transfer heat between the two fluids. The set of tubes is called a tube bundle, and may be composed of several types of tubes: plain, longitudinally finned, etc. Show lessRead moreWikipediaTran slate with GoogleGoogle apps...

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One fluid runs through the tubes and another fluid flows through the shell to transfer heat between two fluids

https://chemeng-processing.blogspot.com/2009/02/shell-and-tube-heat...

...heat exchanger designs. It is the most common type of heat exchanger in oil refineries and other large chemical processes, and is suited for higher-p ressure applications. As its name implies, this type of heat exchanger consi sts of a shell (a large pressure vessel) with a bundle of tubes inside it. **One fluid runs through the tubes, and another fluid flows** over **the tubes (th rough the shell) to transfer heat between the two fluids.** The set of tub es is called a tube bundle, and may be composed by several types of tube s: plain, longitudinally finned, etc. Theory and Application Two fluids, of dif ferent starting temperatures, flow through the heat exchanger. One flows through the tubes (the tube side) and the other flows outside...

Match #19 88% similar

Heat flow from the rotor, air gap windage, and bearing friction heat the air

https://www.researchgate.net/figure/Thcmlal-model-of-air-cooled-synch...

...Models of Air-cooled HydrogeneratorConference PaperFull-text availabl eMay 2020 Madhusudhan Pandey Thomas Øyvang Bernt LieContexts in s ource publicationContext 1.... I shows the thermal operation of the air-cool ed synchronous hydrogenerator. The cold air out of the HE is blown by a fa n into the rotor/stator air gap. The air is heated **heat flow from the rotor, a ir gap windage, and bearing friction.** Furthermore, **the air** is forced into th e iron cores which then gets heated by the heat flow from the... View in ful l-textContext 2... chose Modell, with constaut resistauces and specific heat capacities to aualyze the parameter space. Out of several normalized para meters in e' we tend to optimize one normalized parameter at...

Match #20 69% similar

But in our work, we mainly focus on the counter-current heat exchanger model

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...measured bio-tracers, we demonstrate that increasing combined bio-tracers results in stronger discriminatory power. We argue such applications likely even work for such highly mobile and critical fisheries as tuna.... Nonlinear regression of the counter-current heat exchanger model is implemented in Julia using the package Flux (Innes, 2018;. Moreover, the solution of **the** ideal **counter current heat exchanger model** the numeric solution of the non-ideal heat exchanger model (the case of temperature dependence in the specific heat capacities of air and water) is achieved using the logistic (also known 6 Both SEE andR 2 are rounded to the 5th digit after the decimal place.... Hybrid Model for Fast...

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In this section, the analytic solution of the ideal heat exchanger model and the numeric solution of the non-ideal model are compared

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...measured bio-tracers, we demonstrate that increasing combined bio-tracers results in stronger discriminatory power. We argue such applications likely even work for such highly mobile and critical fisheries as tuna.... Nonlinear regression of the counter-current heat exchanger model is implemented in Julia using the package Flux (Innes, 2018;. Moreover, the between **the analytic solution of the ideal** counter current **heat exchanger model and the numeric solution of the non ideal heat exchanger model (the** case **of** in the specific heat capacities of air and water) is achieved using the logistic (also known 6 Both SEE andR 2 are rounded to the 5th digit after the decimal place.... Hybrid Model for Fast Solution of Thermal Synchronous Generator With Heat ExchangerConference PaperMar 2021Khaled Aleikish Madhusudhan Pandey Thomas...

Match #22 68% similar

These models are widely used in practice and can provide a variety of useful outcomes

http://web.archive.org/web/20190927083545/http://www.crm.umontrea...

...distribution and the optimal acceptance rate of the algorithm for the special case of multidimensional target distributions with independent components. We finally propose to extend the theory to the case of multidimensional target distributions with correlated components. To do so, a natural avenue to explore is that of hierarchical targets; **these models are widely used in practice and** have **a** 0- 13. 50 Lunch Le lunch aura lieu au Pavillon Multifonctionnel (B5 sur le plan) tandis que la pause café aura lieu près de la salle des conférences au d4- 2019. Réunion du laboratoire de statistique du CRM/ Meeting of the CRM Statistics Laboratory 13. 50 -...

Match #23 74% similar

Simple linear regression is used when there is only one variable and multiple linear regression is used when there is more than one

https://medium.com/swlh/multi-linear-regression-using-python-44bd0d...

...at Telkom Digital Talent Incubator 2020 a few weeks ago. You can check the notebook here and try to follow along. So without further ado, let's start! IntroductionRegression analysis itself is a tool for building statistical models that characterize relationships among a dependent variable and one or more independent variables. **Simple Linear Regression** refers to the method **used when there is only one** independent **variable,** while Multi **Linear Regression** refers to the method **used when there is more than one** variable. Multi-Linear Regression can be written as below:In this example we will try to use multi-linear regression to analyze the relationship of a product's price, advertisement cost, and the product sales number. We will also try to predict how much products will be sold given specific product's price and advertisement...

Match #24 60% similar

Generally,ordinary least square method is used. Ordinary least squares(OSL) For estimating the unknown parameters in a linear regression model, ordinary least squares (OLS) is a sort of linear least-squares approach

https://www.bartleby.com/questions-and-answers/a-coin-is-tossed-four...

...does Chebyshev's rule say about the percentage of observations in any data set that lie within... A: Click to see the answerquestion_answerQ: A sample of n 20 scores has a mean of M 45 and a standard deviation of s 6. In this sample, w... A: Click to answerquestion_answerQ: Explain **the** concept **of OLS** Estimators, Predicted Values, and Residuals **in the** Multiple **Regression** Mo... **A: In a linear regression model, ordinary least squares (OLS) is a** type **of linear least squares method** CodeSitemapCareersRefer a FriendContact BartlebyContact Research (Essays)High School TextbooksLiterature GuidesEssay HelpMobile AppTerms of Service|Privacy|Your CA Privacy Rights|Your NV Privacy Rights|About Ads|Accessibility 2021 bartleby. All Rights Reserved....

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By minimizing the sum of the squares of the differences between the dependent variable in the provided dataset and those predicted by the linear function of the independent variable, OLS finds the parameters of a linear function of a collection of explanatory variables

https://www.chegg.com/homework-help/questions-and-answers/using-...

...been solved! See the answerusing Python Data Science- Ordinary Squar es Ordinary least squares for linear regression. Ordinary least squares (OL S) is a method to estimate the parameters β in a simple linear regression, Xβ y, where X is the feature matrix and y is the dependent variable (or targ et), **by minimizing the sum of the squares of the differences between th e** observed **dependent variable in the** given **dataset and those predicted by the linear function.** Mathematically, **the** solution is given **by the** formul a **in the** image, where **the** superscript T means **the** transpose **of a** matrix, **and the** superscript -1 means it is an inverse **of a** matrix. Task Given **a** feat ure matrix X and a vector y, return the coefficient vector; see the formula. I nput Format First line: two integers separated by spaces, the first indicates the rows of the feature matrix X (n) and the second indicates the columns of X (p) Next n lines: values of the row...

Match #26 63% similar

the coefficient of determination can be expressed as: 321 and for zero intercept: 322 In terms of RSS coefficient of determination can be expressed as: 323 In Figure 31the coefficient

https://www.researchgate.net/publication/271082250_Development_of_...

...MPE(Mean Percentage of Error) analysis related to the maximum and mi nimum MPE was conducted. Discover the world's research20 million mem bers135 million publications700k research projectsJoin for freeNo full-text available To read the full-text of this research, you can request a copy dire ctly from the authors. Request full-text PDFCitations (4)References (6)... **T he coefficient of** correlation used **in** this study is **coefficient of determina tion and** adjusted -square, **and the coefficient of determination can be e xpressed as the** square **of the** correlation **coefficient** [13]. **In** addition, to p revent the correlation adj 2 from increasing because of the addition of a rel atively low independent variable, the coefficient of determination after adj ustment was used [14]. This is shown in the following:..... As a result of an alysis, the distance between water depth and structure showed a major...

Match #27 77% similar

RMSE is defined as: 329 The number of observations is denoted by the letter n

https://www.arabgeographers.net/up/uploads/14259463551.pdf

...in Table 2. 1 represents part of the information collected by the research er and it illustrates the number of times per month that a sample of studen ts participated in aerobic exercise classes at the student health club. A sa mple of 19 students provided the researcher with information on their In st atistics **the number of observations is denoted by the letter n.** Therefore in this case, n 19 As it is displayed in this raw form, it is difficult to compre hend any features of the data and answer any questions about how often people engage in aerobic exercise. One useful process is to arrange the ob servations in order from the smallest...

Match #28 64% similar

The standard error of the regression, on the other hand, is the standard deviation of the residuals, and is defined as: 330 The number of parameters in the model is given by k

https://lesslikely.com/statistics/standard-error-clinical-trials

...68/ 7-1 6. 61\] Variance \(6. 61\) Finally, we get the standard deviation b y taking the square root of the variance, \[{\sqrt{6. 61}}\] Standard deviation \(2. 57\) There we have it. Again, the standard deviation is a descriptive sta tistic which tells us about the variability of the data. **Standard Error The st andard error, on the other hand, is the standard deviation of the** sampli ng distribution. It can be thought **of as the standard deviation of** several means. It **is** tells us about the uncertainty in our point estimate. It is calcula ted by taking the standard deviation and dividing it by the square root of th e total number of data points. \[2. 57/ (\sqrt7) 0. 97\] Standard error of the mean \(0. 97\) This and the mean would typically...

Match #29 69% similar

Linear Regression of Counter Current Heat Exchanger model To repeat what was mentioned at the outset of this chapter, one of the goals of this project is to reduce the time it takes to solve the non-ideal heat exchanger model (the case of temperature dependence in the specific heat capacities of air and water)

https://www.researchgate.net/publication/324932058_Flux_Elegant_ma...

...a limited data set of 90 individuals of highly mobile Sockeye salmon that originate from 3 different areas. Using 17 measured bio-tracers, we demo nstrate that increasing combined bio-tracers results in stronger discriminat ory power. We argue such applications likely even work for such highly m obile and critical fisheries as tuna.... **regression of the counter current hea t exchanger model is** implemented **in** Julia using **the** package Flux (Innes, 2018;. Moreover, **the** nonlinear mapping between **the** analytic solution **of the ideal counter current heat exchanger model and the** numeric solutio n **of the non ideal heat exchanger model (the case of temperature depe ndence in the specific heat capacities of air and water) is** using the logis tic (also known 6 Both SEE andR 2 are rounded to the 5th digit after the d ecimal place.... Hybrid Model for Fast Solution of Thermal Synchronous Ge nerator With Heat ExchangerConference PaperMar 2021Khaled Aleikish Madhusudhan Pandey Thomas Øyvang Bernt LieJlBox v1. 1: a Julia-based multi-phase atmospheric chemistry box...

Match #30 77% similar

The core processing units of the network are the neurons

https://paidcourses4free.blogspot.com/2020/05/basics-of-deep-learning....

...recognize the patterns in this data and then predict the outputs for a new set of similar data. Let's understand how this is done let's construct a neural network that differentiates between a square circle and triangle neural networks are made up of layers of neurons these neurons are **the core processing units of the network** first we have **the** layer which receives the input the output layer predicts our final output in between exist the hidden layers which perform most of the computations required by our network here's an image of a circle this image is composed of 28 by 28 pixels. Which make up for 784 pixels each...

Match #31 96% similar

First, we have got the input layer which receives the input, the output layer predicts our final output

https://bookbotlearning.blogspot.com/2019/10/an-introduction-to-neural...

...How Neural Networks Work? Let's understand how this is done. Let's construct a neural network that differentiates between a square, circle, and triangle. Neural networks are made up of layers of neurons. These neurons are the core processing units of the network. Different Layer of Neural Network Source: persagen. **First, we have the input layer which receives the input The output layer predicts our final output** exist the hidden layers, which perform most of the computations required by our network. Here's an image of a circle. This image is composed of 28 by 28 pixels which make up for 784 pixels. Each pixel is fed as input to each neuron of the first layer. Neurons of...

Match #32 100% similar

In between exist the hidden layers which perform most of the computations required by our network

https://bookbotlearning.blogspot.com/2019/10/an-introduction-to-neural...

...between a square, circle, and triangle. Neural networks are made up of layers of neurons. These neurons are the core processing units of the network. Different Layer of Neural Network Source: persagen. com First, we have the input layer which receives the input The output layer predicts our final **In between exist the hidden layers, which perform most of the computations required by our network.** Here's an image of a circle. This image is composed of 28 by 28 pixels which make up for 784 pixels. Each pixel is fed as input to each neuron of the first layer. Neurons of one layer are connected to neurons of the next layer through channels. Each...

Match #33 91% similar

When the input is fed to each neuron of the first layer neurons of one layer are connected to neurons of the next layer through channels

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...the input layer which receives the input The output layer predicts our final output In between exist the hidden layers, which perform most of the computations required by our network. Here's an image of a circle. This image is composed of 28 by 28 pixels which make up for 784 pixel **is fed** as **input to each neuron of the first layer. Neurons of one layer are connected to neurons of the next layer through channels.** Each of these channels is assigned a numerical value known as weight. The inputs are multiplied to the corresponding weights and their sum is sent as input to the neurons in the hidden layer. Each of these neurons is associated with a numerical value called the bias. Which is then...

Match #34 82% similar

Each of those channels is assigned a numerical value referred to as weight

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...our network. Here's an image of a circle. This image is composed of 28 by 28 pixels which make up for 784 pixels. Each pixel is fed as input to each neuron of the first layer. Neurons of one layer are connected to neurons of the next layer through channels. **Each of** these **channels is assigned a numerical value** known **as weight.** inputs are multiplied to the corresponding weights and their sum is sent as input to the neurons in the hidden layer. Each of these neurons is associated with a numerical value called the bias. Which is then added to the input. Sum this value is then passed through a threshold...

Match #35 70% similar

The inputs are multiplied by the weights, and the sum is given to the hidden layer neurons as input

https://www.zkteco.in/news_detail/Artificial-Intelligence-(AI),-Deep-Lear...

...in the form of pixels and each pixel is received by each neuron of the first layer. And neurons of one layer are connected to neurons of the next layer through channels in criss-cross formation to transmit information. Each of t hese channels is assigned certain numerical values, known as weight. **The inputs are multiplied by the** corresponding **weights and the** resulting **su m is** sent **as inputs to the hidden** layers. Within **the hidden** layers, **the ne urons are** certain numerical values called bias value. These values are add ed to the corresponding input sum. The newly formed values are then pas sed through a threshold function called the activation function. The result of the activation function determines the activation of a particular neuron in the bias layer. The activated neurons...

Match #36 86% similar

Each of those neurons is related to a numerical value called the bias, which is then added to the input sum

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...first layer. Neurons of one layer are connected to neurons of the next lay er through channels. Each of these channels is assigned a numerical value known as weight. The inputs are multiplied to the corresponding weights and their sum is sent as input to the neurons in the hidden layer. **Each of** t hese **neurons is** associated with **a numerical value called the bias. Whic h is then added to the input. Sum** this value is then passed through a thre shold function called the activation function. The result of the activation fu nction determines if the particular neuron will get activated or not an. Activ ated neuron transmits data to the neurons of the next layer over the chann els in this manner. The data is...

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This value is then tried and true a function called the activation function

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...assigned a numerical value known as weight. The inputs are multiplied t o the corresponding weights and their sum is sent as input to the neurons i n the hidden layer. Each of these neurons is associated with a numerical va lue called the bias. Which is then added to the input. **this value is then** pa ssed through **a** threshold **function called the activation function.** The res ult of the activation function determines if the particular neuron will get act ivated or not an. Activated neuron transmits data to the neurons of the nex t layer over the channels in this manner. The data is propagated through th e network this is called forward propagation. In the output...

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[22] Figure 310:Various activation function[23] The result of the activation function determines if the neuron will get activated or not

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...are multiplied to the corresponding weight and their sum is sent as input to the neurons in the hidden layer. Each of these neurons is associated wit h a numerical value called the ‗bias' which is then added to the input sum. This value is then passed through a threshold **function** called **the ‗activati on** function'. **The result of the activation function determines if the** parti cular **neuron will get activated or not.** activated neuron transmits data to the neurons of the next layer over the channels. In this manner the data is propagated through the network this is called ‗forward propagation'. In th e output layer the neuron with the highest value fires and determines the o utput. The values are basically a probable....

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An activated neuron transmits data to the neurons of the following layer over the channels during this manner the info is propagated through the network

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...Each of these neurons is associated with a numerical value called the bia s. Which is then added to the input. Sum this value is then passed through a threshold function called the activation function. The result of the activati on function determines if the particular neuron will get activated or **an. Act ivated neuron transmits data to the neurons of the** next **layer over the c hannels** in **this manner. The data is propagated through the network th is is** called forward propagation. In the output layer, the neuron with the hi ghest value fires and determines the output. The values are basically prob able for example, here are near unassociated with square has the highest probability. Hence, that's the output predicted by the neural network. Of co urse, just by a look...

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This is often called forward propagation within the output layer the neuron with the very best value fires and determines the output the values are probable

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...passed through a threshold function called the activation function. The result of the activation function determines if the particular neuron will get activated or not an. Activated neuron transmits data to the neurons of the next layer over the channels in this manner. The data is propagated through the **this is called forward propagation.** In **the output layer, the neuron with the** highest **value fires and determines the output. The values are** basically **probable** here are near unassociated with square has the highest probability. Hence, that's the output predicted by the neural network. Of course, just by a look at it, we know our neural network has made a wrong prediction. But how does the network figure this out? Training the Network...

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During this training process together with the input, our network also because the output fed to that the expected output is compared against the output to understand the error

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...highest probability. Hence, that's the output predicted by the neural network. Of course, just by a look at it, we know our neural network has made a wrong prediction. But how does the network figure this out? Training the Neural Network Note that our network is yet to be trained. **During this training process** along **with the input our network also** has **the output fed to** it. **The** predicted **output is compared against the** actual **output to** realize **the error** in prediction. **The** magnitude of the error indicates how wrong we are in the sign suggests. If our predicted values are higher or lower than expected. The arrows here give an indication of the direction and magnitude of change to reduce the error. This information is then transferred backward through our network. This...

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In prediction, the magnitude of the error suggests if our predicted values are higher or lower than expected results

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...how does the network figure this out? Training the Neural Network Note that our network is yet to be trained. During this training process along with the input our network also has the output fed to it. The predicted output is compared against the actual output to realize the **error in prediction. The magnitude of the error** indicates how wrong we **are in the** sign **suggests. If our predicted values are higher or lower than expected. The** here give an indication of the direction and magnitude of change to reduce the error. This information is then transferred backward through our network. This is known as backpropagation. Now based on this information, the weights have adjusted. This cycle of forwarding propagation and back propagation is iteratively performed with...

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Here indicates the direction and magnitude of change to reduce the error

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...our network also has the output fed to it. The predicted output is compared against the actual output to realize the error in prediction. The magnitude of the error indicates how wrong we are in the sign suggests. If our predicted values are higher or lower than expected. The an indication **of the direction and magnitude of change to reduce the error.** This information is then transferred backward through our network. This is known as backpropagation. Now based on this information, the weights have adjusted. This cycle of forwarding propagation and back propagation is iteratively performed with multiple inputs? This process continues until our weights are assigned such that the network...

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This information is then transferred backward through our network which is known as backpropagation

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...the actual output to realize the error in prediction. The magnitude of the error indicates how wrong we are in the sign suggests. If our predicted values are higher or lower than expected. The arrows here give an indication of the direction and magnitude of change to reduce the error. **This information is then transferred backward through our network. This is known as backpropagation.** Now based on this information, the weights have adjusted. This cycle of forwarding propagation and back propagation is iteratively performed with multiple inputs? This process continues until our weights are assigned such that the network can predict the shapes correctly. In most of the cases, this brings our training...

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Now supported by this information, the weights are adjusted

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...it. So, the predicted output is compared against the actual output to realize the error in the prediction. The magnitude of the error indicates how wrong the prediction is. The information is then transferred backward through the network. This is called Back Propagation. The error is corrected through back Based on **this information the weights are adjusted.** This cycle of forward and back propagation is iteratively performed with multiple inputs. This process continues until our weights are assigned such that the network can predict the pattern correctly. The error rate defines the accuracy of the model. The number of iterations must not be neither too small...

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This cycle of forwarding propagation and backpropagation is iteratively performed with multiple inputs

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...If our predicted values are higher or lower than expected. The arrows here give an indication of the direction and magnitude of change to reduce the error. This information is then transferred backward through our network. This is known as backpropagation. Now based on this information, the weights have adjusted. **This cycle of forwarding propagation and** back **propagation is iteratively performed with multiple inputs?** This process continues until our weights are assigned such that the network can predict the shapes correctly. In most of the cases, this brings our training process to an end. You might wonder how long this training process takes. Honestly, neural networks may take hours or even months to...

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This process continues until our weights are assigned such that the network can predict the output correctly [24]

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...an indication of the direction and magnitude of change to reduce the error. This information is then transferred backward through our network. This is known as backpropagation. Now based on this information, the weights have adjusted. This cycle of forwarding propagation and back propagation is iteratively performed with multiple inputs? **This process continues until our weights are assigned such that the network can predict the** shapes **correctly.** In most of the cases, this brings our training process to an end. You might wonder how long this training process takes. Honestly, neural networks may take hours or even months to train but time is a reasonable trade-off when compared to its. Prime Applications of Neural Networks facial recognition...

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Third, the data-driven models' execution speeds and the numeric solution of the non-ideal heat exchanger model are contrasted. Analytic vs

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...that increasing combined bio-tracers results in stronger discriminatory power. We argue such applications likely even work for such highly mobile and critical fisheries as tuna.... Nonlinear regression of the counter-current heat exchanger model is implemented in Julia using the package Flux (Innes, 2018;. Moreover, the nonlinear mapping between the **analytic solution of the ideal** counter current **heat exchanger model and the numeric solution of the non ideal heat exchanger model (the** case **of** temperature dependence in **the** heat capacities of air and water) is achieved using the logistic (also known 6 Both SEE andR 2 are rounded to the 5th digit after the decimal place.... Hybrid Model for Fast Solution of Thermal Synchronous Generator With Heat ExchangerConference PaperMar 2021Khaled Aleikish Madhusudhan Pandey Thomas Øyvang Bernt LieJlBox...

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Numeric Solution of the Counter-current Heat Exchanger Model An overview of the thermal model of an air-cooled synchronous generator was given in Chapter 2, along with ideal and non-ideal heat exchanger models

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...with the analytic expressions of equations 1 and 2, is presented in Table 8 for the heat exchanger model, and in Table 9 for the thermal model of an air-cooled synchronous generator. The hybrid solutions of the heat exchanger sub-model achieved similar execution speeds and are much faster than **the numeric solution of the** nonlinear two point boundary value problem. Similarly, **the** simulation time **of the thermal model of an air cooled synchronous generator was** significantly reduced by using **the** hybrid **models.** 6 Conclusions **In** this paper, **the thermal model of the counter current heat exchanger** that **was** developed **in** Lie7, is extended with the case of temperature dependence in the specific heat ca- 7Lie, B.: Lecture Notes in course FM1015 Modelling of Dynamic Systems at University of South-Eastern Norway, 2019. Figure 12. Validation results of nonlinear regression of the counter-current heat exchanger model. The Y-axis is the average RMSE...

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Also addressed was the effect of temperature dependency in the basic heat capacities of air and water on the heat exchanger sub-model solution

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...(Murphy, 2020). In this work, polynomials were fitted to the experimental data in (Incropera et al., 2013) and compared with the empirical equations in (McBride et al., 2002). Figure 2 shows the comparison between the spe cific heat capacities of (Incropera et al., 2013) and the empirical equations of (McBride Furthermore, to study **the** impact **of the temperature** depend ence **of the** specific **heat capacities of air and water on the solution of th e** counter current **heat exchanger model, the** are considered:• Model 1: A n ideal heat exchanger model, which is solved using the analytic expressio ns. The specific heat capacities of air and water are constant and equal 1. 1 5kJ/kg/K and 4. 2kJ/kg/K, respectively. 4Lie, B.: Solution to Project in course FM1015 Modelling of Dynamic Systems at University of...

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In the situation of temperature independence in the specific heat capacity of water and air , Table 4

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...model of the generator with cooling heat exchanger has been developed; the idea is that this allows for better monitoring of generator temperature, while relaxing on the power factor constraint. The current model is only va lid for an ideal case of constant heat capacity. In this work, the generator to allow for **temperature** dependence **in heat capacity of water and air in t he heat** The consequence of this more realistic model, is that it is no longe r possible to find an explicit, analytic solution of the heat exchanger model, and it is now necessary to instead solve numerically a two point boundary value problem for each time step in the differential equation solver....

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Regression of the Counter-Current Heat Exchanger Model One of the primary goals of this project is to shorten the time it takes to solve the non-ideal heat exchanger model (the case of temperature dependency in the specific heat capacity of air and water), as described in Chapter 3

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...limited data set of 90 individuals of highly mobile Sockeye salmon that or iginate from 3 different areas. Using 17 measured bio-tracers, we demonst rate that increasing combined bio-tracers results in stronger discriminatory power. We argue such applications likely even work for such highly mobil e and critical fisheries as tuna.... Nonlinear **regression of the counter curre nt heat exchanger model is** implemented **in** Julia using **the** package Flux (Innes, 2018;. Moreover, **the** nonlinear mapping between **the** analytic soluti on **of the ideal counter current heat exchanger model and the** numeric s olution **of the non ideal heat exchanger model (the case of temperature** dependence **in the specific heat** capacities **of air and** water) **is** achieved u sing **the** also known 6 Both SEE andR 2 are rounded to the 5th digit after t he decimal place.... Hybrid Model for Fast Solution of Thermal Synchronou s Generator With Heat ExchangerConference PaperMar 2021Khaled Aleik ish Madhusudhan Pandey Thomas Øyvang Bernt LieJlBox v1. 1: a Julia-ba sed multi-phase atmospheric chemistry box modelArticleFull-text availabl eApr 2021GMD...

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We can see that the time required to compute error increases as the node increases

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...side of Table 6. In addition, we also show the distributions of the time an d memory consumption with violin plots in Fig. 5. Note, these results comp rise both, the parsing and the extraction of the timed automaton for a give n time method. Looking at the table and the violin plots, **we can see that t he time required to** process a method varies from 98ms **to** 192ms using b etween 3 and 89MB of memory with a median value of 9. 5MB. With... Vie w in full-textContext 2... value of 9. 5MB. With respect to the median time, the time methods in the Hadoop project took the longest to process, namel y 233ms, while the time methods in...

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Conclusion This thesis provides an overview of the thermal model of an air-cooled synchronous generator provided by [1] and explored by [8], as well as a discussion of the heat exchanger sub-probable model's extension to the scenario of temperature dependency in the specific heat capacities of air and water

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...with temperature dependence in the heat capacities, a numeric solution i s required. In this work, the two-point boundary value problem of the ther mal model is solved numerically by utilizing the boundary value problem (BVP) solvers available in the DifferentialEquations package for Julia (Racka uckas and Nie, 2017). In the thermal **model of** Lie4, cold **air** is blown **by a** fan into **the** gap between **the** rotor **and the** stator, which cools **the synchr onous generator** before returning **to the** shell side **of the** counter current **heat exchanger.** There, **the** hot **air** is **cooled by** cold **water** passing **in the** tube side. **In this** work, **temperature** dependence is only considered **in the heat capacities of air and water in the heat exchanger** part of the model. Temperature dependence in the heat capacities is often expressed as an e mpirical power series in T or as a polynomial in T (Murphy, 2020). In this w ork, polynomials were fitted to the experimental data in (Incropera et al., 2 013) and compared with the empirical equations in...

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Furthermore, explicit data-driven models were constructed using linear and nonlinear regression for a range of situations and stated as a correction expression to the ideal heat exchanger model to speed up the solution time of the non-ideal heat exchanger sub-model

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...435 80 0. 1207 0. 4567 85 0. 1365 0. 4936 90 0. 1756 0. 5742 95 0. 2621 0. 6995 100 0. 3765 0. 8686 pacities of air and water. The benchmark results showed a very long simulation time when solving the nonlinear boundary value problem numerically. To **speed up the solution time, explicit data driven models were** developed **using linear and nonlinear regression.** Validation was used **to** select **the** order **of the** polynomial **of the** design matrix **and the** dimension **of the** layers in **the** FNN. However, **the** order **of the** polynomial **and the** dimension **of the** layers **were** not **the** only factors that impacts **the** accuracy **of the models. The** of the models was also affected by the generated data matrix on which the regression models were fitted. The generated data matrix should only contain informative data that relates to the model's objective. Moreover, the regression models were expressed as a correction term to the explicit/analytic ideal heat exchanger model....

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6 Future work References [1] T. Øyvang, Enhanced power capability of generator units for increased operational security, vol

https://www.researchgate.net/publication/349938557_Hybrid_Model_fo...

...projectsJoin for freeNo full-text available To read the full-text of this research, you can request a copy directly from the authors. Request full-text PDFCitations (0)References (11)ResearchGate has not been able to resolve any citations for this publication. State Estimation of a Thermal Model of Air-cooled Synchronous GeneratorConference PaperFull-text availableJan 2020 **Øyvang** Bernt LieEnhanced **Power Capability of Generator Units for Increased Operational Security** NMPCArticleFull-text availableSep 2019 IEEE T POWER SYST Thomas Øyvang Jonas Kristiansen Nøland Roshan Sharma Bernt LieThe ever-increasing penetration of intermittent energy sources introduces new demanding operating regimes for the bulk power generation in the power grid. During a worst-case power system disturbance scenario, the generator needs to operate beyond its limits...

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[2] M. Pandey, “Model Fitting and State Estimation for Thermal Model of Synchronous Generator,” p

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...Guide and Map. CRC Press, 2020. ISBN 978-1-00-003028-0. Thomas Øyvang. Enhanced power capability of generator unites for increased operational security. PhD thesis, University of South-Eastern Norway, Faculty of Technology, Natural Sciences and Maritime Sciences University of South Eastern Norway N-2018 Porsgrunn Norway, December 2018. ISBN: 978-82-7206-503-3 (print) ISBN: 978-82-7206-504-0 (online). **Pandey. Model fitting and state estimation for thermal model of synchronous** University of South-Eastern Norway, Porsgrunn, Norway, 2019. Madhusudhan Pandey, Thomas Øyvang, and Bernt Lie. State estimation of a thermal model of air-cooled synchronous generator. In Proceedings of the 60th Conference on Simulation and Modelling, volume 170 of Linköping Electronic Conference Proceedings, pages 190-197, University of Västerås, Västerås, Sweden, August...

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...these as oxygen from the electrolyzer can be used for the gasification, to avoid ballast of nitrogen in the product gas. The paper will identify optimal solution under different conditions with respect to both electricity and raw material costs, as well as capital cost. 10:50Khaled Aleikish, Thomas Øyvang and LieHybrid **model for fast solution of thermal synchronous generator with heat** LieABSTRACT. Overheating of synchronous generators may lead to shortened generator lifespan, thus strict constraints are imposed on their operation. A dynamic model of the generator temperature may allow for better monitoring of the generator condition, and thus more flexible operation. Øyvang (2018) considered the combination of a thermal model of...

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