



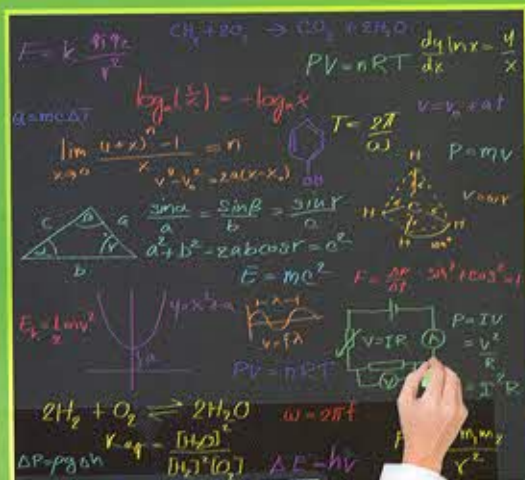
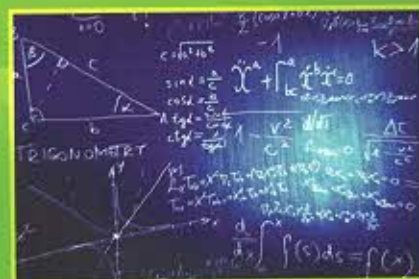
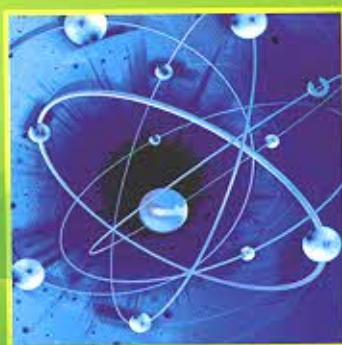
ปีที่ 33 ฉบับที่ 2 มีนาคม - เมษายน 2557

ISSN : 1686-9664

วารสาร

# วิทยาศาสตร์และเทคโนโลยี มหาวิทยาลัยมหาสารคาม

[www.journal.msu.ac.th](http://www.journal.msu.ac.th)



วารสารวิทยาศาสตร์และเทคโนโลยี..

SERIALS



003326  
bib:13399108808



## Content

Original	page
<b>A Study on Search Algorithms for Constructing Optimal Designs</b> .....	103
Jaratsri Rungrattanaubol, Anamai Na-udom	
<b>Modified Ratio Estimators in Stratified Random Sampling</b> .....	112
Prayad Sangngam, Sasiprapa Hirrote	
<b>Dependence Analysis for the Exchange Rate Data using Extreme Value Copulas</b> .....	117
Jaruchat Busaba	
<b>Parameters Estimation Methods for the Negative Binomial-Crack Distribution and Its Application</b> .....	125
Pornpop Saengthong, Winai Bodhisuwan	
<b>Fuzzy-Set Method For Grade Evaluation</b> .....	131
R. Chonchaiya, A. Pongpullponsak	
<b>Improving of Test Statistic for the Risk Ratio in a Correlated 2 x 2 Table with Structural Zero</b> .....	137
Pimwarat Nanthaprut, Manad Khamkong	
<b>Optimization of Climate Dowsaling Using Gradient Descent with Momentum and Quasi-Newton Methods</b> .....	141
Wachiraporn Permpoonsinsup, Dusadee Sukawat	
<b>Estimation of Tropical Cyclone Wind Using a Modified Jelesnianski's Pressure Model</b> .....	146
Sasiwimon Pornprapai, Dusadee Sukawat	
<b>A Numerical Study of Typhoon Xangsane (0615) Development by Weather Research and Forecasting Model</b> .....	150
Wikanda Supasanun, Dusadee Sukawat	
<b>The Noise Model Prediction by Allan Variance</b> .....	154
Taddown Nabnean	
<b>Monitoring Air Quality by Statistical Control Charts</b> .....	157
Ahmad, M. I.; AL-Toubi, A. I. and Al-Saadi, M. S.	
<b>Classification of Thai Independent Study in Statistics Using Data Mining Techniques</b> .....	160
Phimpaka Taninpong, Nattira Muangmala	
<b>The Comparison of Point Estimation for Parameter for Geometric Distribution Data in Small Sample Size</b> .....	168
Yadpirun Supharokonsakun	
<b>To measure the satisfaction level of outpatients by Jonckheere-Terpstra</b> .....	172
Chunchom Pongchavalit, Sureepon Janbamrung, Isaree Joijumpod	

## Content

Original	page
<b>The Development of Hot-deck Corrected Item Mean (HDD-CIM) for Estimating Missing Data .....</b>	<b>175</b>
Paitoon Muliwan, Nipaporn Chutiman, Prapas Pue-on	
<b>Student Retirement Analysis Using Decision Tree Techniques .....</b>	<b>179</b>
Pattariya Supaudon, Nipaporn Chutiman, Bungon Kumphon	
<b>Experimental study of working fluids in thermosyphon heat exchanger with annular fins for thermal performance enhancement .....</b>	<b>183</b>
Siriporn Setwong, Teerapat Chompookham, Pattanapol Meena	
<b>Development of a black galingale dryer using biomass working together with a CLOHP/CV heat exchanger .....</b>	<b>192</b>
P. Meena, S. Wongpakdeea, A. Phonkho, S. Setwong	
<b>Effect of Inclination Angle on the Heat Transfer Performance of a Closed Loop Oscillating Heat Pipe with Check Valve (CLOHP/CV) and Fins on Tube Wall .....</b>	<b>200</b>
Ardnarong Pholkho, Teerapat Chompookham , Pattanapol Meena	
<b>Acaricidal activities of crude extract derived from <i>Annona squamosa</i> Linnaeus leaves against cattle tick, <i>Rhipicephalus microplus</i> Canestrini (Acari: Ixodidea).....</b>	<b>211</b>
Bounthavy Vongkhamchanh, Paweena Rattanasena, Prapassorn Bussaman	