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Institutional Profile : <https://www.annauniv.edu/industrial/dillibabu.html>  
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---

**Dr. Eman H. El-Shenawy**

Associate Professor, Plastic Deformation Department, Metal Technology Division, Central Metallurgical R&D Institute (CMRDI), Cairo, Egypt

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**Dr. B Nagaraj**

Professor, Department of Mechanical Engineering, Rathinam Technical Campus, Coimbatore, India

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---

**Dr. Faisal Talib**

Professor, Department of Mechanical Engineering, Zakir Hussain College of Engineering & Technology, Aligarh Muslim University, Aligarh, India

Email : [ftalib@zhcet.ac.in](mailto:ftalib@zhcet.ac.in), [ftalib77@gmail.com](mailto:ftalib77@gmail.com) (<mailto:ftalib@zhcet.ac.in>,  
[ftalib77@gmail.com](mailto:ftalib77@gmail.com))  
Institutional Profile : <https://www.amu.ac.in/faculty/mechanical-engineering/faisal-talib>  
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**Dr. Wanyang Dai**

Professor, Mathematics Department, Nanjing University, China

Email : [nan5lu8@nju.edu.cn](mailto:nan5lu8@nju.edu.cn) (<mailto:nan5lu8@nju.edu.cn>)  
Institutional Profile : <http://maths.nju.edu.cn/~wydai/indexE.html>  
(<http://maths.nju.edu.cn/~wydai/indexE.html>)  
ORCID : <https://orcid.org/0000-0001-5383-0292> (<https://orcid.org/0000-0001-5383-0292>)  
Research Gate : <https://www.researchgate.net/profile/Wanyang-Dai>  
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### **Dr. Desineni Subbaram Naidu**

Professor of Electrical Engineering, University of Minnesota Duluth (UMD), USA

Email : [dsnaidu@d.umn.edu](mailto:dsnaidu@d.umn.edu) (<mailto:dsnaidu@d.umn.edu>)  
Institutional Profile : <https://www.d.umn.edu/~dsnaidu/> (<https://www.d.umn.edu/~dsnaidu/>)  
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Research Gate : <https://www.researchgate.net/profile/Desineni-Naidu-2>  
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---

### **Dr. Wenxian Yang**

Senior Lecturer in Offshore Renewable Energy, School of Engineering, University of Newcastle, England, UK

Email : [Wenxian.Yang@newcastle.ac.uk](mailto:Wenxian.Yang@newcastle.ac.uk) (<mailto:Wenxian.Yang@newcastle.ac.uk>)  
Institutional Profile : <https://www.ncl.ac.uk/engineering/staff/profile/wenxianyang.html>  
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Professor, Department of Mechanical Engineering, Sur University College, Sur, Sultanate of Oman

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Institutional Profile : <http://www.suc.edu.om/index.php/en/academic-sta?id=301>  
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### **Dr. M. L. Meena**

Associate Professor, Mechanical Engineering Department, Malaviya National Institute of Technology, Jaipur, India

Email : [mlmeena.mech@mnit.ac.in](mailto:mlmeena.mech@mnit.ac.in) (<mailto:mlmeena.mech@mnit.ac.in>)

Institutional Profile : <http://mnit.ac.in/faculty/profile.php?fid=iXymx1Pvb2SaX35e37t52zwjP3wAvujokXld0xBu5zk>  
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Associate Professor, Department of Mechanical Engineering, Bangalore Institute of Technology, India

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### **Dr. Fateh Mebarek-Oudina**

Professor, Department of Physics, University of Skikda, Algeria

Email : [f.mebarek\\_oudina@univ-skikda.dz](mailto:f.mebarek_oudina@univ-skikda.dz) ; [oudina2003@yahoo.fr](mailto:oudina2003@yahoo.fr)  
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Head of Pumps Engineering Department, Technical College of Al-Musaib, Babylon, IRAQ

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### **Dr. Kumar Tamma**

Professor, Department of Mechanical Engineering, College of Science and Engineering, University of Minnesota, USA

Email : [ktamma@umn.edu](mailto:ktamma@umn.edu) (<mailto:ktamma@umn.edu>)  
Institutional Profile : <https://cse.umn.edu/me/kumar-tamma> (<https://cse.umn.edu/me/kumar-tamma>)  
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Emeritus Professor, Project Center for Nanotechnology and Advanced Engineering, National Technical University of Athens, Greece

Email : [agmamalis@yahoo.com](mailto:agmamalis@yahoo.com) (<mailto:agmamalis@yahoo.com>)  
ORCID : <https://orcid.org/0000-0001-8747-6500> (<https://orcid.org/0000-0001-8747-6500>)

---

### **Dr. Bindeshwar Singh**

Assistant Professor, Department of Electrical Engineering, Kamla Nehru Institute of Technology, Sultanpur, U.P., INDIA

Email : [bindeshwar.singh2025@gmail.com](mailto:bindeshwar.singh2025@gmail.com) (<mailto:bindeshwar.singh2025@gmail.com>)  
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(<https://scholar.google.co.in/citations?user=P2-uh6wAAAAJ&hl=en>)  
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(<https://www.researchgate.net/profile/Bindeshwar-Singh-2>)

---

### **Dr. Abdullah A. Kendoush**

Professor, Department of Nuclear Engineering Technology, Augusta Technical College, 3200 Augusta Tech Drive, Augusta, USA

Email : [akendoush@augustatech.edu](mailto:akendoush@augustatech.edu) (<mailto:akendoush@augustatech.edu>)  
<https://www.augustatech.edu/about-us/a-z-index.cms/detail/138/Dr.%20Abdullah%20Kendoush>  
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### **Dr. Samy Oraby**

Professor of Machining, Metal Cutting and Manufacturing Processes, Department of Mechanical Engineering, Pharos University in Alexandria, Egypt

Email : [Samy.oraby@pua.edu.eg](mailto:Samy.oraby@pua.edu.eg) ; [amyoraby@hotmail.com](mailto:amyoraby@hotmail.com)  
(<mailto:Samy.oraby@pua.edu.eg> ; [amyoraby@hotmail.com](mailto:amyoraby@hotmail.com))

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---

### **Dr. K. Suresh Kumar**

Professor, Department of Mechanical Engineering, SRM Institute of Science & Technology, Tamil Nadu, India.

Email : [sureshkk@srmist.edu.in](mailto:sureshkk@srmist.edu.in) ; [kumarksuresh1967@gmail.com](mailto:kumarksuresh1967@gmail.com)  
(<mailto:sureshkk@srmist.edu.in> ; [kumarksuresh1967@gmail.com](mailto:kumarksuresh1967@gmail.com))

Institutional Profile : <https://www.srmist.edu.in/engineering/mechanical/faculty/dr-k-suresh-kumar>  
(<https://www.srmist.edu.in/engineering/mechanical/faculty/dr-k-suresh-kumar>)

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### **Dr. João Paulo Ferreira**

Professor, Department of Electrical Engineering, Institute of Systems and Robotics of Coimbra - Portugal, Coimbra Institute of Engineering, Portugal

Email : [ferreira@isec.pt](mailto:ferreira@isec.pt) (<mailto:ferreira@isec.pt>)

Institutional Profile : <https://www.isr.uc.pt/index.php/people?task=showpeople.show&idPerson=43>  
(<https://www.isr.uc.pt/index.php/people?task=showpeople.show&idPerson=43>)

ORCID : <https://orcid.org/0000-0003-0143-9421> (<https://orcid.org/0000-0003-0143-9421>)

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(<https://publons.com/researcher/2289352/joao-p-ferreira/>)

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### **Dr. José Reinaldo Silva**

Professor, Mechatronics Department, Universidade de São Paulo, Brazil

Email : [reinaldo@usp.br](mailto:reinaldo@usp.br) (<mailto:reinaldo@usp.br>)

Institutional Profile : <http://www.iea.usp.br/pessoas/pasta-pessoaj/jose-reinaldo-silva>  
(<http://www.iea.usp.br/pessoas/pasta-pessoaj/jose-reinaldo-silva>)



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### **Dr. Ramesh Agarwal**

The William Palm Professor of Engineering, Department of Mechanical Engineering & Materials Science, Washington University in St. Louis, USA

Email : [rka@wustl.edu](mailto:rka@wustl.edu) (<mailto:rka@wustl.edu>)  
Institutional Profile : <https://engineering.wustl.edu/faculty/Ramesh-Agarwal.html>  
: (<https://engineering.wustl.edu/faculty/Ramesh-Agarwal.html>)  
ORCID : <https://orcid.org/0000-0002-9642-1023> (<https://orcid.org/0000-0002-9642-1023>)  
Research Gate : <https://www.researchgate.net/profile/Ramesh-Agarwal>  
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### **Dr. Bhupendra Kumar Sharma**

Associate Professor, Department of Mathematics, BITS Pilani Rajasthan, India

Email : [bksharma@bits-pilani.ac.in](mailto:bksharma@bits-pilani.ac.in) ; Bhupendra Kumar Sharma (<mailto:bksharma@bits-pilani.ac.in> ; Bhupendra Kumar Sharma)  
Institutional Profile : <https://universe.bits-pilani.ac.in/pilani/bksharma/profile> (<https://universe.bits-pilani.ac.in/pilani/bksharma/profile>)  
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### **Dr. Ajeet Kumar Rai**

Assistant Professor (Sr. Grade), Department of Mechanical Engineering, Sam Higginbottom University of Agriculture, Technology and Sciences, UP, India

Email : [ajeet.rai@shiats.edu.in](mailto:ajeet.rai@shiats.edu.in) ; [raiajeet@rediffmail.com](mailto:raiajeet@rediffmail.com) (<mailto:ajeet.rai@shiats.edu.in> ; [raiajeet@rediffmail.com](mailto:raiajeet@rediffmail.com))  
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ORCID : <https://orcid.org/0000-0003-4706-5963> (<https://orcid.org/0000-0003-4706-5963>)

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### **Dr. Mohd Azman Bin Abdullah**

Professor, Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka, MALAYSIA

Email : [mohdazman@utem.edu.my](mailto:mohdazman@utem.edu.my) (<mailto:mohdazman@utem.edu.my>)

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ORCID : <https://orcid.org/0000-0003-1678-157X> (<https://orcid.org/0000-0003-1678-157X>)  
Research Gate : <https://www.researchgate.net/profile/Mohd-Abdullah-11>  
(<https://www.researchgate.net/profile/Mohd-Abdullah-11>)

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### **Dr. T.R.Vijayaram**

Professor, School of Mechanical Engineering, Galgotias University, UP, India

Email : [vijayaram1@gmail.com](mailto:vijayaram1@gmail.com) (<mailto:vijayaram1@gmail.com>)  
Google Scholar : <https://scholar.google.com/citations?user=uIQ1CrEAAAAJ&hl=en>  
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### **Dr. M. Chithirai Pon Selvan**

Associate Professor, School of Science and Engineering, , Curtin University Dubai, United Arab Emirates

Email : [Pon.Selvan@curtindubai.ac.ae](mailto:Pon.Selvan@curtindubai.ac.ae) (<mailto:Pon.Selvan@curtindubai.ac.ae>)  
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### **Dr. A. Elaya Perumal**

Professor, Engineering Design, Department of Mechanical Engineering, College of Engineering, Anna University, Chennai, India

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(<https://www.researchgate.net/profile/Ayyasamy-Elayaperumal>)

---

### **Dr. Anan Suebsomran**

Associate Professor Faculty of Technical Education King Monkut's University of Technology North Bangkok Thailand

Email : [asr@kmutnb.ac.th](mailto:asr@kmutnb.ac.th) (<mailto:asr@kmutnb.ac.th>)

Institutional Profile : <https://ir.kmutnb.ac.th/pub/researcher/?r=pub/researcher/&id=26&lang=us>  
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### **Dr. Ashok G. Matani**

Professor, Department of Mechanical Engineering, Government College of Engineering, Amravati, India

Email : [matani.ashok@gcoea.ac.in](mailto:matani.ashok@gcoea.ac.in) ; [ashokgm333@rediffmail.com](mailto:ashokgm333@rediffmail.com)  
(<mailto:matani.ashok@gcoea.ac.in> ; [ashokgm333@rediffmail.com](mailto:ashokgm333@rediffmail.com))

ORCID : <https://orcid.org/0000-0001-8110-3041> (<https://orcid.org/0000-0001-8110-3041>)

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---

### **Dr. Hodjat Hamidi (Hojatollah Hamidi)**

K.N. Toosi University of Technology, Faculty of Industrial Engineering, Information Technology Engineering Group, Tehran, Iran

Email : [h\\_hamidi@kntu.ac.ir](mailto:h_hamidi@kntu.ac.ir) ; [hamidi\\_h1389@yahoo.com](mailto:hamidi_h1389@yahoo.com) ; [hojathamidi@gmail.com](mailto:hojathamidi@gmail.com)  
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[hojathamidi@gmail.com](mailto:hojathamidi@gmail.com))

Institutional Profile : [https://wp.kntu.ac.ir/h\\_hamidi/](https://wp.kntu.ac.ir/h_hamidi/) ([https://wp.kntu.ac.ir/h\\_hamidi/](https://wp.kntu.ac.ir/h_hamidi/))

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Research Gate : <https://www.researchgate.net/profile/H-Hamidi>  
(<https://www.researchgate.net/profile/H-Hamidi>)

---

### **Dr. Syed Mithun Ali**

Professor, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology. Dhaka-1000, Bangladesh

Email : [mithun@ipe.buet.ac.bd](mailto:mithun@ipe.buet.ac.bd) ; [syed.mithun@gmail.com](mailto:syed.mithun@gmail.com) (<mailto:mithun@ipe.buet.ac.bd>  
; [syed.mithun@gmail.com](mailto:syed.mithun@gmail.com))

Institutional Profile : <http://ipe.buet.ac.bd/faculty/dr-syed-mithun-ali/> (<http://ipe.buet.ac.bd/faculty/dr-syed-mithun-ali/>)

Google Scholar : <https://scholar.google.co.jp/citations?user=vCkenssAAAAJ&hl=en>  
(<https://scholar.google.co.jp/citations?user=vCkenssAAAAJ&hl=en>)

ORCID : <https://orcid.org/0000-0002-4302-5991> (<https://orcid.org/0000-0002-4302-5991>)

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---

### **Dr. Sylwia Olszańska**

Assistant professor, Chair of Logistics and Process Engineering, University of Information Technology and Management based in Rzeszow, Rzeszow, Poland

Email : [sylvie9393@interia.pl](mailto:sylvie9393@interia.pl) (mailto:sylvie9393@interia.pl)  
Institutional Profile : <https://podyplomowe.wsiz.pl/kadra-trenerzy/dr-inz-sylwia-olszanska/>  
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ORCID : <https://scholar.google.com/citations?user=vTXZPt4AAAAJ&hl=th>  
(<https://scholar.google.com/citations?user=vTXZPt4AAAAJ&hl=th>)

### Dr. Nithyananda B S

Associate Professor and PG Coordinator, Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Mysuru, Karnataka, India

Email : [bsn@vvce.ac.in](mailto:bsn@vvce.ac.in) (mailto:bsn@vvce.ac.in)

### Dr. T.Sathish

Associate Professor, Department of Mechanical Engineering, Saveetha School of Engineering, SIMATS Chennai, Tamilnadu, Inida Scopus Author Profile: <https://www.scopus.com/authid/detail.uri?authorId=56736457800>

Email : [sathisht.sse@saveetha.com](mailto:sathisht.sse@saveetha.com) (mailto:sathisht.sse@saveetha.com)  
Institutional Profile : <https://orcid.org/0000-0003-4912-5579> View this author's ORCID profile  
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# CUSTOMER EXPERIENCE MANAGEMENT: AN EMPIRICAL EVIDENCE OF FUNCTIONAL CLUES AND ENGINEERING STUDENT'S LOYALTY

**BORISHADE Taiye T, KEHINDE Oladele J., OGUNNAIKE Olaleke, WORLU Rowland E, IYIOLA Oluwole, DIRISU Joy**

Covenant University,  
Dept. of Bus. Mgt., PMB 1023, Ota, Ogun State, Nigeria

## ABSTRACT

*This paper empirically investigates the influence of functional clues as a strategy of customer experience management on engineering students' loyalty within the context of higher education in Nigeria. The basic purpose of this paper was to examine if the application of marketing strategies can be applied by higher institutions in order to satisfy their student and turn them to advocate of their brands/service. To achieve this objective, a total of 215 copies of the questionnaires were retrieved from engineering student of a private university adjudged to be the best in Nigeria. Multi-stage sampling techniques were employed in this study. Using the Categorical Regression CATREG analysis, the study found that functional clues have positive influence on engineering students' loyalty to the university. Relying on this finding, the study therefore recommended among other things that the university management should adopt customer experience management as a strategy to build student loyalty and also concentrate their efforts on the improvement of functional clues by focusing more on the development of the competences of their lecturers and implement the strategy in order to gain repeat patronage of their students for further studies.*

**Keyword:** Customer, Experience, Functional clues, Student, Loyalty, Higher Education.

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# DESIGN COMPARATIVE OF PVC FISHING BOAT WITH VARIATION OF SHIP HULLFORM AND FISHING GEAR TYPE

Deddy Chrismianto, Parlindungan Manik, Good Rindo and Ahmad Firdhaus

Department of Naval Architecture, Engineering Faculty,  
Diponegoro University, Indonesia.

## ABSTRACT

*This study have been done to investigate the characteristics of the fishing boat using PVC pipe material with variations of hullform that have the smallest total ship resistance, and good ship stability that meets International Maritime Organisation (IMO) standards. The method used in this study is to creating 3D modeling with variations of hullform and the fishing gear type. The smallest total ship resistance and good ship stability values are obtained on the flat model no.2 with displacement volume of the boat 22.48 m<sup>3</sup>. The resistance of the boat is 10.1 kN with ship powering is 46.55 kW at 9 knots. The stability of the ship in flat model no.2 with different types of fishing gear meets the IMO standard, but the smallest GZ value is obtained when using longline fishing gear.*

**Key words:** PVC fishing boat, ship resistance and ship stability.

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## 1. INTRODUCTION

Indonesia is a country that has the territorial area with almost 2/3 of its territory consisting of oceans separated by thousands of islands spread from Sabang to Merauke. The wealth of marine products is abundant, especially in the fisheries sector, so many Indonesians work as fishermen. Fishing boats in Indonesia basically it used wood as raw materials. In the development of limited of wood materials, alternative materials such as fiberglass and PVC pipes can be made as a ship hull [1]. The PVC boat is built because it has some advantages, that are: low cost of fishing boat production, easy to be built, and no need longer working time than other boats production.

Refer to the study result of the first PVC fishing boat in Indonesia is named KM Baruna Fishtama, it has known that the total ship resistance and ship stability values haven't obtained good results and need to be investigated further [2, 3]. The ship hullform and layout design on





# PREPARATION OF NEW ALUMINUM MATRIX COMPOSITE REINFORCED WITH HYBRID NANO REINFORCEMENTS $Fe_2O_3$ AND $Al_2O_3$ VIA (P/M) ROUTE

H. J. M. Alalkawi, Ghada Adel Aziz and Hussain A. Aljawad

University of technology, Iraq

## ABSTRACT

*Nanocomposites are materials fabricated from two or more materials with different mechanical and electrical properties. Combining these materials produce a new designed material with new and better properties differ from the individual components. In recent years nanocomposites have been developed and employed almost in all industries. The current study deals with fabricating a hybrid composite (when there are a minimum of three materials, the composite is called as hybrid composite). Pure aluminum 99.6% as the base matrix and Iron oxide  $Fe_2O_3$  (alpha) and aluminum oxide  $Al_2O_3$  (alpha alumina).  $Fe_2O_3$  weight percentage (wt%) is varied (1.5, 2.5 and 5% by weight) and the wt% of  $Al_2O_3$  is held constant (2 wt%). The new designed nanocomposite was produced using Powder Metallurgy (P/M) method. This method has been widely used for fabricating aluminum matrix composites (AMCs) due to it is low costs and gives high accuracy as well as the ease of using. The matrix used was aluminum powder with an average particle size of (60 $\mu$ m) with 99.6% purity and  $Fe_2O_3$  (99% purity and 30 nm particle size) and  $Al_2O_3$  with (99.5% purity and 14-20 nm particle size). The experimental results revealed that the microstructure images of composites showed uniformly distributed of  $Fe_2O_3$  and  $Al_2O_3$  in aluminum matrix. The maximum compressive strength (CS) and hardness (HV) are 152 MPa and 47.2 respectively in composite containing (1.5  $Fe_2O_3$  + 2  $Al_2O_3$ ) wt%. The improvement percentage was recorded to be 30% and 18.5% for CS and HV respectively. The electrical properties of the composites were enhanced due to addition the nanohybrid  $Fe_2O_3$  +  $Al_2O_3$  nanomaterials. The maximum conductivity was observed in composite including (1.5%  $Fe_2O_3$  + 2%  $Al_2O_3$ ) which is equal to 69521 ( $\Omega \cdot m$ )<sup>-1</sup> while the zero nano exhibited 1170 ( $\Omega \cdot m$ )<sup>-1</sup>. Also the conductivity for all composites are higher than that of matrix. The conductivity increased with increasing the frequency*

**Keywords:** hybrid nanocomposites, powder metallurgy, compression tests, conductivity and resistivity.