

Persoalan Sitasi [dan Plagiarism] Dalam Karya Ilmiah

Perspektif Berinovasi di iARG – Jurusan Fisika FMIPA UNS

Iwan Yahya

The iwany Acoustics & Applied Physics Research Group [iARG]
Jurusan Fisika FMIPA Universitas Sebelas Maret
iwanyy@yahoo.com, iyahya@uns.ac.id

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Plagiarisme [dalam keseharian] Kita



Karl Theodore zu Guttenberg – Ph.D. Bayreuth University

Image diambil dari Goresanpelangi

the most [shocking] case



Jan Hendrik Schon – Fisikawan Bell Laboratories

Author Misconduct: Tindakan Fabrikasi Data

Jumlah *retracted paper*: 6 dari Science, 7 dari Nature, dan 6 dari American Physical Society Journals;
Dipecat dari pekerjaan sebagai peneliti;
Sanksi tidak diijinkan mendapat dana riset selama 8 tahun;
Pencabutan gelar PhD oleh Universitas Konstanz pada tahun 2004.



Hwang Woo-Suk – Professor Bioteknologi Seoul National University Korea;

Author Misconduct: Tindakan Fabrikasi Data

Menjadi sangat terkenal berkat dua publikasi di Science pada 2004 dan 2005 yang menyebutkan keberhasilan pengembangan sel punca (stem cell) manusia dengan teknik cloning;
Kedua paper tersebut kemudian ditarik kembali;
Terkena sanksi hukum: penjara;
Kehilangan pekerjaan: reputasi akademik hancur.

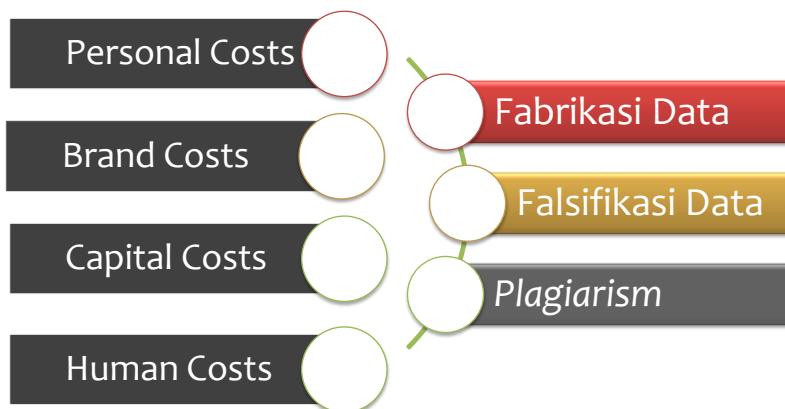
**mengapa
[author misconduct]
terjadi?**

outline [presentasi] saya



Author Misconduct: Ragam & Konsekuensinya
Situsi & Authorships
Perspektif Strategi & Sistem Inovasi UNS

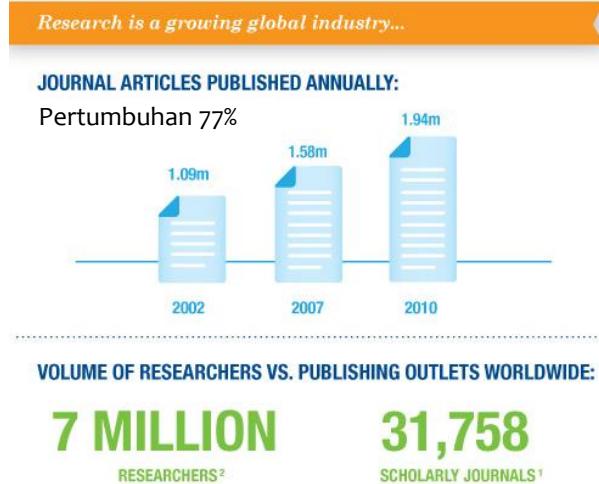
Author Misconduct and Its Costs





[Data dari Laporan tahun 2012]

The Costs of Research Misconduct



[Data dari Laporan tahun 2012]

The Costs of Research Misconduct [2]





[Data dari Laporan tahun 2012]

The Costs of Research Misconduct [3]

Leading to dramatic increases in retractions...

10+ FOLD INCREASE IN RETRACTIONS WORLDWIDE IN A DECADE²

2001:
< 30 RETRACTIONS 2011:
400+ RETRACTIONS



TOP 4 REASONS FOR RETRACTIONS^{2,9}

- 1 MISTAKES
- 2 SELF-PLAGIARISM
- 3 PLAGIARISM
- 4 FABRICATION
OR FALSIFICATION



The Costs of Research Misconduct [4]

With human and monetary costs...



INDIVIDUAL COSTS

JOB LOSSES, REVOKED PhDs
AND AWARDS



CAPITAL COSTS

\$525,000

COST OF A SINGLE INVESTIGATION INTO RESEARCH MALPRACTICE IN U.S.¹



BRAND COSTS

DAMAGED REPUTATIONS,
RETRACTIONS AND SALES LOSSES



HUMAN COSTS

70,501

PATIENTS TREATED BY 851 RETRACTED SECONDARY STUDIES⁸

\$110 MILLION

TOTAL COST OF INVESTIGATIONS INTO RESEARCH MISCONDUCT IN U.S. IN 2010¹

mengapa [*author misconduct*] terjadi?

Quality [Measures] in Research



Conduct of Science:
Theory, Method, Analytical Model [**Publishable**]

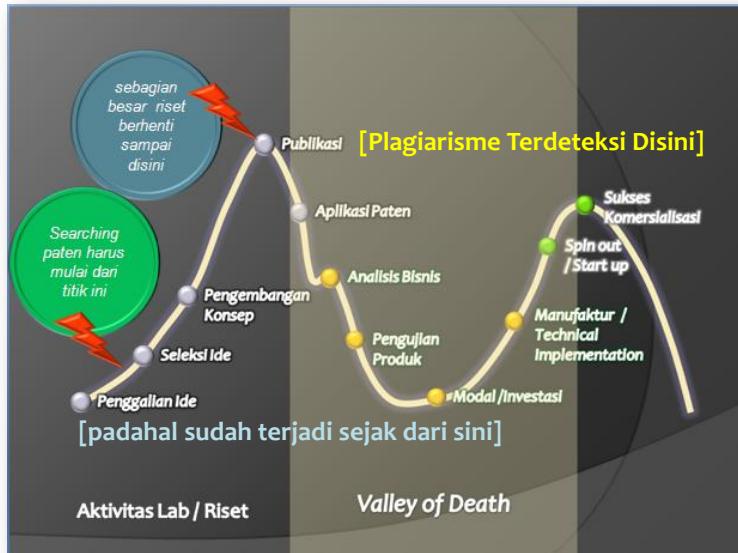
Technology & Economic Outcome:
Prototype, Software, Tools [**Patentable**]

Societal Outcome:
Public Services, **CSR Perspective**

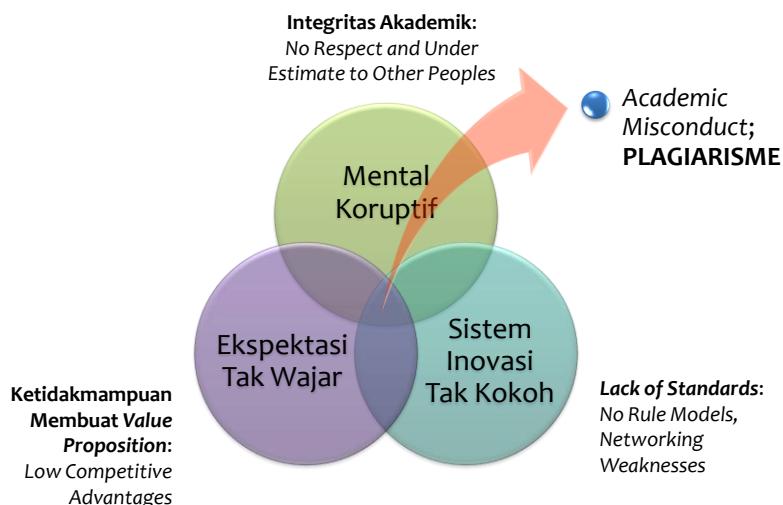
Educational Impact:
Supporting for **teaching and learning services**

Idiom Populer [yang wajib disikapi secara bijaksana]:
Publish or Perish

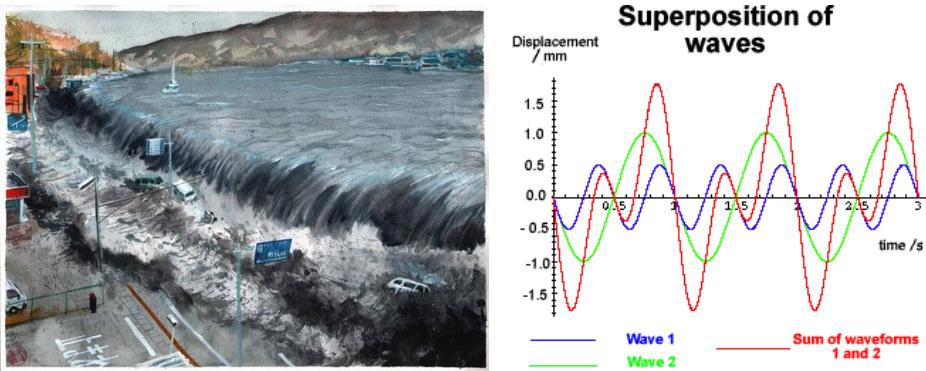
Research Steps: Perspektif [Entrepreneurial] University



mengapa [plagiarisme] terjadi



mengapa [plagiarisme] terjadi



Superposisi Mental Koruptif dan Ekspektasi Tak Wajar dalam Keadaan Tak Mampu Membuat Value Proposition Menghasilkan Resultan dengan Kekuatan yang Dapat Merusak Integritas dan Ketahanan Sistem Nilai Akademik

Images:

<http://www.cyberphysics.co.uk/graphics/graphs/superposition.gif>

<http://2.bp.blogspot.com/-KhWY9CZDW8/TYQXUltxAgI/AAAAAAAAb44/UvUG79o9gwU/s1600/webeisme-tsunami.jpg>

Masalah Sitasi & Authorships

Referencing:

1. Citing in the text
2. Reference at the end of the works

Citing & Referencing Styles:

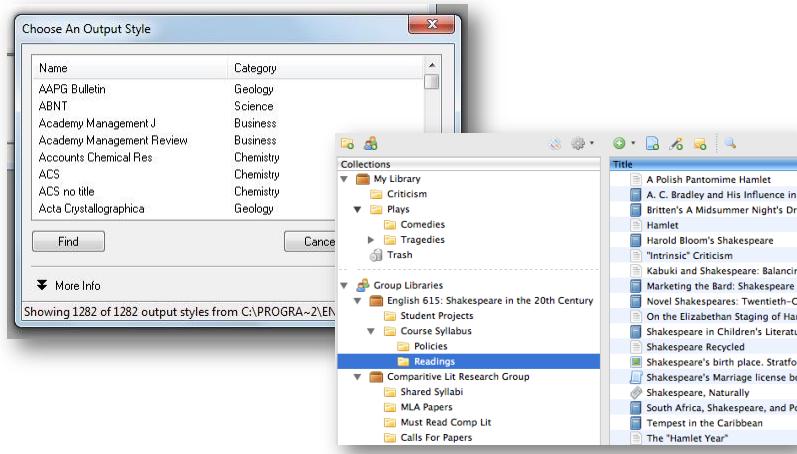
Terdapat banyak ragam gaya sitasi dan penulisan referensi: Harvard System, APA, Chicago Style, dan lain-lain. Bahkan setiap jurnal internasional menyajikan tatacara sitasi yang berlaku [dapat diakses di internet].

Perangkat Lunak:

Terdapat banyak pilihan perangkat lunak yang dapat memudahkan peneliti dalam mengelola referensi: Endnote, Refworks, Zotero.

Masalah Sitasi & Authorships

Referencing Styles & Resources Management:



Masalah Sitasi & Authorships [2]

Authorships:

Author is a person who has made a substantive intellectual contribution to the submitted manuscript. A substantive contribution includes of the following: Design or conceptualization of study OR analysis or interpretation of the data OR drafting or revising the manuscript for intellectual content.

Mahasiswa yang membantu proses penelitian [bertugas melakukan pengambilan data] tidak terkategorikan sebagai author. Peran mereka dapat diapresiasi di dalam acknowledgement. Pihak sponsor tidak terkategorikan sebagai author. Gift writer, grant writer dan apalagi ghost writer merupakan kategori author misconduct.

Masalah Sitasi & Authorships [3]

Re-Use of Data & Plagiarism Issue

Rule of Thumb

Seorang atau sekelompok peneliti telah terkategorikan melakukan self plagiarism tatkala yang bersangkutan menggunakan sebanyak 10% atau lebih data yang telah digunakan dalam publikasi terdahulu dengan tanpa penambahan atribut baru apa pun.

Sangat penting bagi para peneliti untuk memahami secara benar makna tersirat dari Cover Letter saat mengirimkan manuskrip kepada pihak penerbit.

Masalah Sitasi & Authorships [4]

Self Plagiarism

The issue is not related to publication of manuscript twice or more but about the **intention of the author(s) to deceive**.

Dalam banyak peristiwa semisal kasus Nelson Tansu, self plagiarism terjadi karena ‘tekanan karir’. Idiom Publish or Perish harus disikapi dengan sikap dan perilaku bijaksana. Universitas berkewajiban mengembangkan strategi bersistem untuk menanggulangi segala macam academic misconduct.

some [research] finding

#1

Cheaters cheating themselves

Kavanaugh, J. F., Cheaters, America Vol 189, Sept. 29, 2003

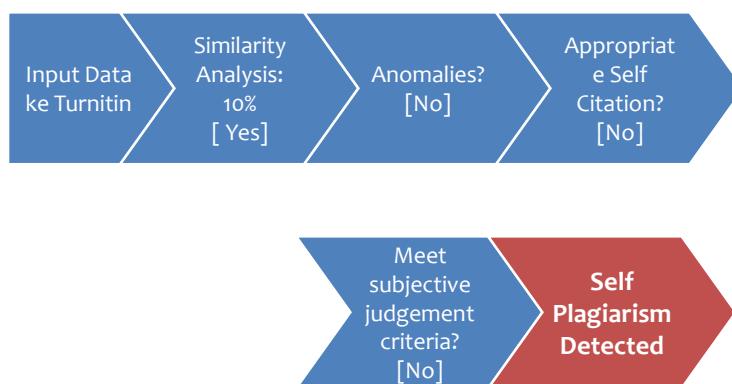
#2

jika seseorang dapat melakukan tindakan plagiarisme dengan tanpa terdeteksi, maka sejatinya orang tersebut memiliki kemampuan untuk menulis karya ilmiah dengan tanpa perlu melakukan tindakan kecurangan

Malesic, J. *How dumb do they think we are?*
Chronicle of Higher Education, vol 53. Dec 15, 2006

Masalah Sitasi & Authorships [4]

Common Self Plagiarism Combating Strategy



strategy [for plagiarism] combating



Integrated Innovation System

Suspected

Systemic Approaching
Personal Approaching

TurnItIn,
Viper, etc.

Ke[tidak]patutan Tidak Dapat Secara Tepat Dinyatakan dengan Angka

Aplikasi [Pendeteksi] Plagiarisme

Viper, the plagiarism checker that's accurate, easy and free...

Checked your essay for plagiarism?

To avoid plagiarism, you should always reference correctly according to your institution's guidelines and use Viper. Viper is fast becoming the plagiarism checker of choice, rising over and above other plagiarism checkers, with over 10 billion resources scanned and an easy interface which highlights potential areas of plagiarism in your work. Best of all, there's a free option!

Got an essay ready to hand in but need it checking over first?
[To take advantage of our editing services click here](#)

Aplikasi [Pendeteksi] Plagiarisme

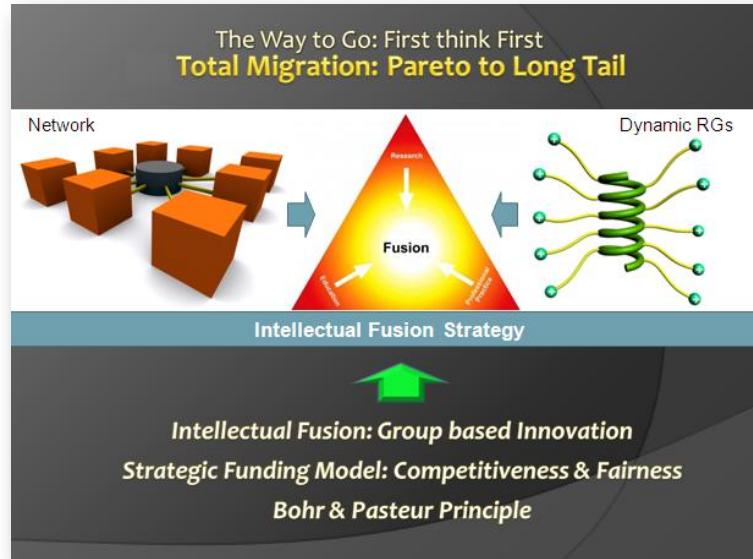


Aplikasi [Pendeteksi] Plagiarisme

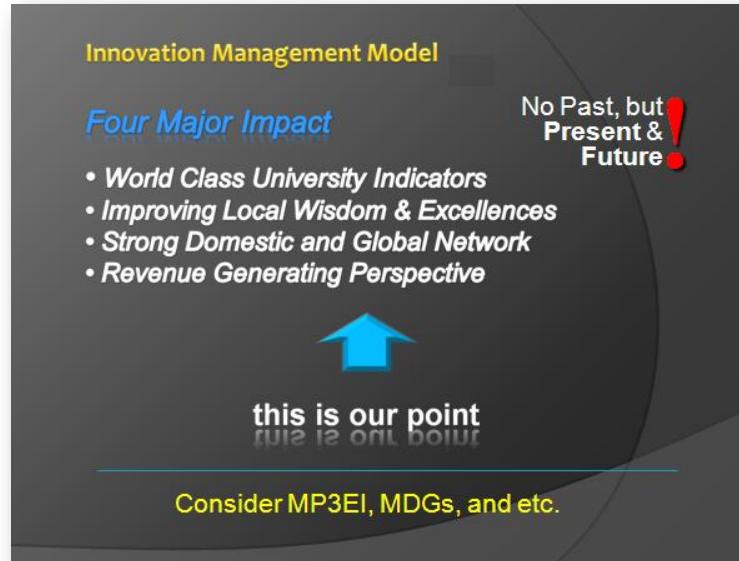
Tabel 1. Ragam Layanan dan Aplikasi Pendekripsi Plagiarisme

Nama	Website	Gratis	Berbayar
Plagiarism.org	www.plagiarism.org	✓	
TurnItIn	https://turnitin.com/	✓	
Ithenicate	http://www.ithenticate.com/	✓	
WriteCheck	https://www.writecheck.com/	✓	
TurnItInAdmission	https://www.turnitinadmissions.com/	✓	
CopyScape	http://www.copyscape.com/	✓	✓
DOCCop	http://www.doccop.com/	✓	
CheckForPlagiarism	http://checkforplagiarism.net/	✓	
Plagiarism.com	http://www.plagiarism.com/	✓	✓
PlagiarismFinder	http://www.plagiarismfinder.com/	✓	
SaveAssign	http://www.safeassignment.com/	✓	
Plagiarismdetect	http://www.plagiarismdetect.com/	✓	✓
Viper	http://www.scanmyessay.com/	✓	
DupliChecker	http://www.duplichecker.com/	✓	

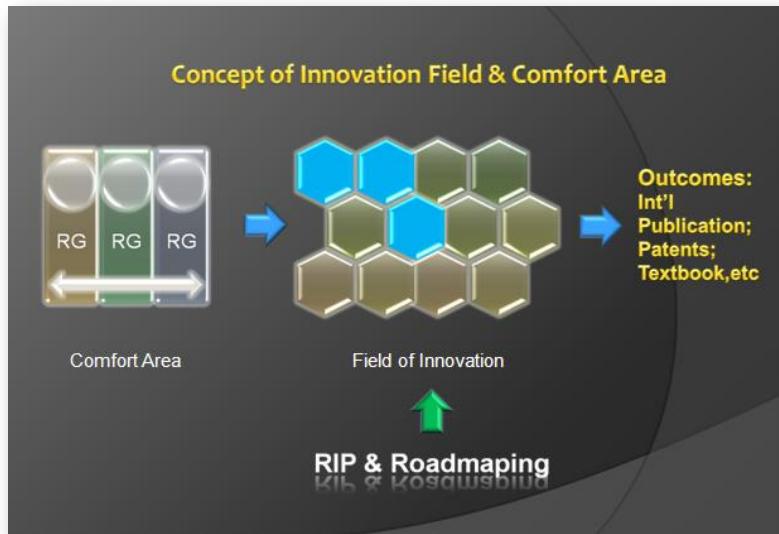
Migrasi [Budaya] Berkarya



Migrasi [Budaya] Berkarya



Grup Riset sebagai Comfort Area



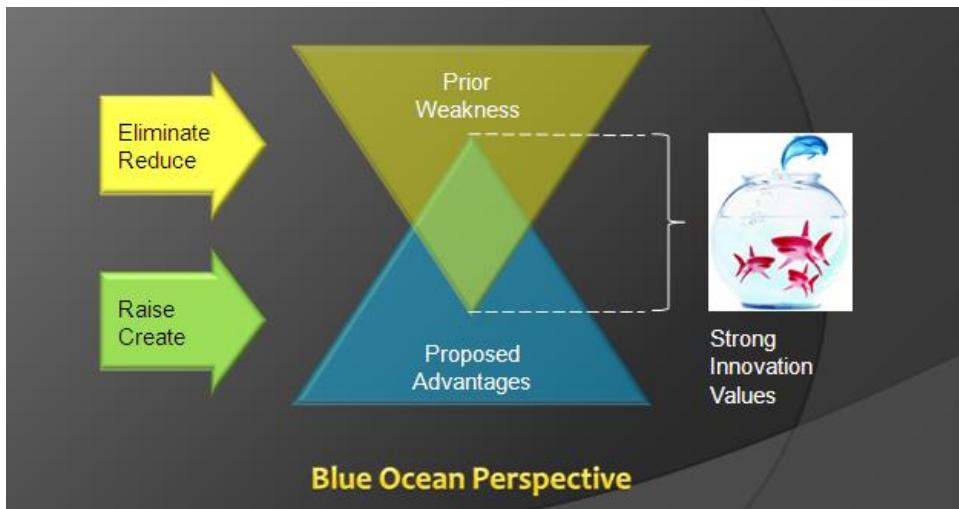
Grup Riset sebagai Comfort Area



Grup Riset sebagai Comfort Area



Blue Ocean Strategy [Kim and Mauborgne]



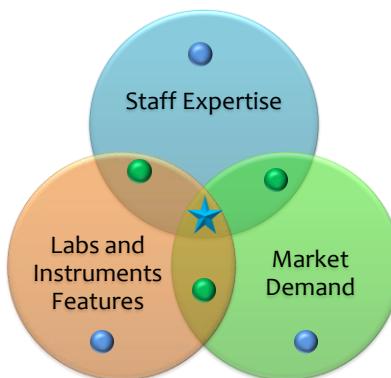
Blue Ocean Strategy [Kim and Mauborgne]

Red Ocean Strategy	Blue Ocean Strategy
Compete in existing market spaces	Create uncontested market space
The industry structural condition are given and firms are forced to compete within them (<i>structuralist view/environmental determinism</i>)	Market boundaries and industries can be reconstructed by the actions and beliefs in industry players (<i>reconstructionist view</i>)
Beat the competition	Make the competition irrelevant
Exploit existing demand	Create and capture new demand
Make the value/cost trade off	Break the value/cost trade off
Align the whole system of a company's activities with its strategic choice of differentiation or low cost	Align the whole system of a company's activities in pursuit of differentiation <i>and</i> low cost

Thinker Toys [Michael Michalko]



iARG Expertise Marketing Model



- ★ **Star Segment:** Top Priority [Main Product and or Services]
- **Green Segment:** Short and medium term development [Promising product and or services]
- **Blue Segment:** Implement the Blue Ocean and Thinker Toys Strategy for Long Term Development Product and or Services Improvement and diversification

Strong Innovation Track Record:

Research and Technology Development Achievement;
Collaboration and Networks [Form RG01]



Specific Measurement & Analysis Capabilities:

Standards [SNI, ISO, ASTM, JIS, etc.]

Specific Market:

Define the main products and services; Develop product diversification .

iARG Expertise Marketing Model [3] : Example

Strong Innovation Track Record:

Long story on Acoustics Research: Sound Absorber development; sound and vibration based energy harvesting; room and environmental noise analysis; sound diffuser and exhaust muffler simulation and design



Specific Measurement & Analysis Capabilities:

Sound absorption and sound transmission loss measurement [ASTM, ISO, and JIS]; room acoustic analysis [ASTM & ISO]; environmental noise analysis [ASTM & ISO]; Sound intensity analysis [ISO]; and transfer function based analysis [ASTM & ISO].

Specific Market:

Automotive Supply Industries [silencer, front hood, carpet, and etc.]; exhaust muffler industries; acoustics materials industries; auditorium and hall acoustics measurements; Acoustic tile and partition including sound diffusers, and etc.

Catatan Akhir

Plagiarisme [BUKAN] Pilihan

maturnuwun