



Satuan Acara Pengajaran

MTB82152 - Proses Pelapisan & Inhibisi

Pengajar

Prof. Dr. Ir. Johny Wahyuadi Mudaryoto DEA.

Minggu 1

Materi INTRODUKSI: (Chap 1 ref 1, Chap 4 ref 2)
- Penjelasan SAP, Sistem Perkuliahan & penilaian
- Prinsip Proteksi Korosi
- Organik coating, metalik coating, proteksi katodik

Media LCD

Referensi 1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
 Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
 Macmillan
 Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

Aktivitas Kuliah dan diskusi

Minggu 2

Materi Prinsip pelapisan : (Chap 2 ref 1)
rheology
surface chemistry
sagging and slumping
leveling

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

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Minggu 3

Materi Teori Adhesi 1 (Chap 3 ref 1)
Jenis ikatan
Pengujian adhesi
Jenis kerusakan pada pelapisan

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

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Minggu 4

Materi Teori Adhesi 2 (Chap 3 ref 1)
Jenis korosi akibat pelapisan organik
Tahapan proses korosi

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

Aktivitas Kuliah dan diskusi

Minggu 5

Materi Persiapan permukaan (Chap 4 ref 1, Part I ref. 3)
Persiapan logam dasar
Persiapan permukaan logam
Persiapan permukaan non logam
Aplikasi 1

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

Aktivitas Kuliah dan Diskusi

Minggu 6

Materi - Komposisi cat (Chap 5 & 6 ref 1)
- Material Pelapis Non Logam

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

Aktivitas Kuliah dan Diskusi

Minggu 7

Materi Pemilihan pelapis (Chap 7 & 8 ref 1)
Aplikasi 2

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

Aktivitas Kuliah dan diskusi

Minggu 8

Materi	Pelapisan Logam (Chap 10 ref 1)
Media	LCD
Referensi	<ol style="list-style-type: none"> 1. Coating and Painting, 2005 2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001. 3. Kenneth Graham A., Electroplating Handbook, 3rd. 4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International Publs., New York,1974. 5. Denny A Jones, Principles and Prevention of Corrosion,Hearle, 2nd, Macmillan Publs. Co., New York, 1992. 6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.
Aktivitas	Kuliah dan Diskusi

Minggu 9

Materi	Ujian Tengah Semester
Media	
Referensi	
Aktivitas	

Minggu 10

Materi	Conversion coating, Cementitious coating, monolithic (Chap 11, 12, 13 ref 1)
Media	LCD
Referensi	<ol style="list-style-type: none"> 1. Coating and Painting, 2005 2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001. 3. Kenneth Graham A., Electroplating Handbook, 3rd. 4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International Publs., New York,1974. 5. Denny A Jones, Principles and Prevention of Corrosion,Hearle, 2nd, Macmillan Publs. Co., New York, 1992. 6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

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Minggu 11

Materi Comparative resistance coating and painting (Ch 9 & 14 ref 1)

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York,1974.
5. Denny A Jones, Principles and Prevention of Corrosion,Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

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Minggu 12

Materi Anodizing (Part I Chap 14 E ref 3)

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York,1974.
5. Denny A Jones, Principles and Prevention of Corrosion,Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

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Minggu 13

Materi Introduction Inhibitor (Chap 15 ref 5, ref 6)

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

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Minggu 14

Materi Mekanisme inhibitor (Ref 6)

Media LCD

Referensi

1. Coating and Painting, 2005
2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
3. Kenneth Graham A., Electroplating Handbook, 3rd.
4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
Publs., New York, 1974.
5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.

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Minggu 15

Materi Aplikasi inhibitor

Media LCD

- Referensi**
1. Coating and Painting, 2005
 2. Chatterjee U.K., Bose S.K., Roy S.K., Environmental Degradation of Metals, Marcel Dekker Inc., New York, 2001.
 3. Kenneth Graham A., Electroplating Handbook, 3rd.
 4. Frederick A. Lowenheim, Modern Electroplating, 3rd, The Wiley International
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 5. Denny A Jones, Principles and Prevention of Corrosion, Hearle, 2nd,
Macmillan
Publs. Co., New York, 1992.
 6. Nathan C.C., Corrosion Inhibitor, NACE, Houston, 1997.
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Minggu 16

Materi Presentasi

Media LCD

Referensi

Aktivitas Diskusi

Minggu 17

Materi Presentasi

Media

Referensi

Aktivitas

Minggu 18

Materi Ujian Akhir Semester

Media

Referensi

Aktivitas
