

Contents		CHAPTER (4)		CHAPTER (7)	
Contents		Cleanroom Equipments		AMC (Airborne Molecular Contamination)	
CHAPTER (1)		4.1 Introduction		7.1 Introduction	
Cleanroom ACMV System		4.2 Air Filter Unit (AFU)		7.2 AMC (Airborne Molecular Contamination)	
1.1 Introduction		4.3 Fan Filter Unit		7.3 Prevention of AMC	
1.2 Particle		4.4 Clean Benches		7.4 Takasago's Chemical Washer and Chemical Filter	
1.3 Basic Principle of Cleanroom		4.5 Air Lock		7.5 AMC Measurement Method	
1.4 Standards of Cleanroom		4.6 Air Shower		CHAPTER (8)	
1.5 Application of Cleanroom		4.7 Cleanroom Pass Box		ESD(Electro-Static Discharge)	
1.6 Types of Cleanroom		4.8 Bio Safety Cabinets		8.1 Static Electricity	
1.7 Transition of Cleanroom System		4.9 Summary		8.2 ESD Impact to production	
CHAPTER (2)		CHAPTER (5)		8.3 Countermeasure of ESD	
2. Design Concept		5. Psychrometrics of Air-Conditioning Processes		8.4 Takasago's Ionizer	
2.1 Introduction		5.1 Properties of Moist Air		CHAPTER (9)	
2.2 Design Flow		5.2 Determination of Moist Air Properties Using Psychrometric Chart		9. Testing And Commissioning	
2.4 Layout		5.3 Types of Heat Gain in Spaces		9.1 Cleanroom (or Clean Zone)	
2.5 Concept of Cleanroom System		5.4 Processes Involved in AHU and Spaces		9.2 Recommended Tests By Cleanroom Type	
2.6 Air-con Zoning		5.5 Air-Conditioning Space		9.3 Air flow velocity, Volume and Uniformity Tests	
2.7 Pressurization		CHAPTER (6)		9.4 Filter Leak Tests	
2.8 Regulation / Standard		Cleanroom Disciplines and Gowing Protocol		9.5 Particle Count Tests	
2.9 Schedule		6.1 Introduction to Cleanroom Garments		9.6 Pressurization Test	
2.10 Cost Consideration		6.2 Characteristic of a Cleanroom Garment Fabrics		9.7 Parallelism Test	
CHAPTER (3)		6.3 Garment Materials		9.8 Integrity Test	
3.1 Heat Load Calculation		6.4 General Fabric Recommendations		9.9 Recovery Test	
3.2 HVAC Air Filters		6.5 Pre-entry Preparation to Enter A Cleanroom		9.10 Particle Fallout Count	
3.3 Fan Filter Unit (FFU)		6.6 Garments Recommendations (IES-RP-003.2)		9.11 Lighting Level Test	
3.4 MAU (Make-up Air-Conditioning Unit)		6.7 Exit Cleanroom Procedures		9.12 Noise Level Test	
3.5 Dry Coil		6.8 Personnel Disciplines		9.13 Temperature and Moisture Uniformity Test	
3.6 FCU (Fan Coil Unit)		6.9 The Do and Don't in Cleanroom		9.14 Vibration Test	
3.7 AHU (Air Handling Unit)		6.10 Summary			
3.8 Room Pressure					