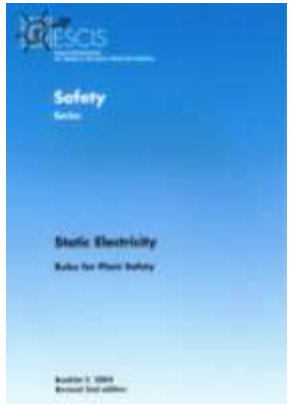
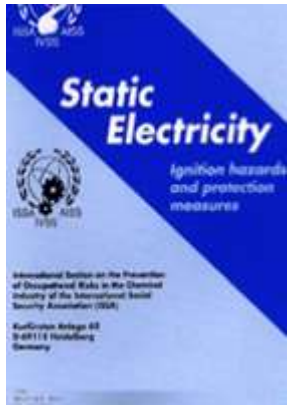
ISSA booklet

Front page	No.	issued	Title/brief	language	Price (Yen)
	-1	2002	**Tutorial Static Electricity Ignition hazards and protection measures (CD-ROM)** Interactive tutorial is divided into the following sections. Theory 5 chapters, 7 Case studies, 50 Technical terms glossary	Eng	10,000
	-2	2005	**Rules for Plant Safety (A4 75pages, 55 Figures, 15 Tables)** • the occurrence if electrostatic charges in plant operations • working with flammable liquids • handling of solids in powder form • moving parts on machines and apparatus • the human body as a carrier of electrostatic charges • hints for planning and construction	Eng	3,000

	-3	2010 監修版	**静電気（A5 75 頁, 41 図, 3 表）** 爆発危険性と静電気帯電，静電気帯電の起源,電荷の蓄積と消散，放電の種類と着火性,静電気帯電による着火危険への対策,可燃性液体・可燃性ガスの取り扱い，可燃性液体のサスお延ション及びエマルションの取り扱い，可燃性バルク材の取り扱い,可燃性溶剤を含んだバルク材の取り扱い	Japanese	2,500
	-4	1996	**Static Electricity Ignition Hazards and protection measures (A5 75pages, 41figures, 3tables)** Explosion hazard and electric charging, Origin of electrostatic charges, Accumulation of charges and charge dissipation, Type of discharge and incendivity, Measures against ignition hazards resulting from electrostatic charging, Handling of flammable liquid and gases, Handling of suspensions and emulsions of flammable liquids, Handling of flammable bulk materials in the absence of flammable gases and vapors, Handling of bulk materials containing flammable solvents	Eng	2,000

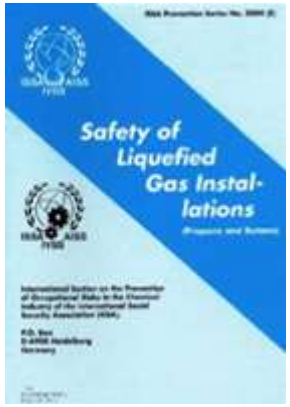
	-5	2016 監修版	**粉塵爆発事故事例：原因、影響、防止策 （A5 50 頁 写真 16 枚）** 実践のためのレッスン 事故とその分析 1. 製粉工場における粉体充填ステーション 2. マグネシウム粉末混合プラント（1 回目） 3. マグネシウム粉末混合プラント(2 回目） 4. プラスチック粉末の混合機への充填 5. ゴム粉砕機の抽出装置 6. 石炭粉の抽出シヤッター 7. スターチサイロの溶接作業 8. フラッシュドライヤ ABC パウダー用フラッシュドライヤ 9. 木材チップ炉 10. アルミニウムの粉砕 11. 溶剤湿式製品の粉砕 12. ビッグバッグ(FIBC)の空詰めの作業 主な爆発防止対策の概要 用語と定義 ISSA 出版の防爆に関する資料	Japanese	2,500

	-6	2006	**Dust Explosion Incidents: Their Causes, Effects and Prevention (A5 50pages, 16pictures)** Lessons for the practice Incidents and their analysis 1. Flour packing station in a flour mill 2. Magnesium powder mixing plant (1st) 3. Magnesium powder mixing plant (2nd) 4. Filling a mixer with plastic powder 5. Extraction system of a rubber grinding machine 6. Coal dust extraction system 7. Welding world on a starch silo 8. Flash dryer Flash dryer for ABC powder for ABC powder 9. Wood chip furnace 10. Grinding of Aluminum 11. Milling of solvent wet product 12. Emptying Big-Bags (FIBC) Summary of the main explosion protection measures Terms and definitions ISSA publication on explosion protection	English	1,500

	-7	2003	**Dust Explosions Protection against explosions due to flammable dusts(A5 38pages, 20figures)** Prerequisites for the occurrence of explosions Protective measures Prevention of dust explosions Avoidance of hazardous effects of dust explosions Organizational measures Design measures References ISSA publications on explosion protection	English	2,000
	-8	2009	**Static Electricity DVD film edited by Dr Martin Glor** DVD Static Electricity film with Japanese summary on the fundamentals of static electricity and the measures taken against static electricity at plants in Ciba, Basel and Givaudan Vernier GE. here click; brief sample of video	English	5,000

	-9	2004	**Dust Explosion Prevention and Protection for Machines and Equipment (A5 50pages, 24figures,3 tables)** 1. Introduction 2. Explosion prevention 0. Avoiding explosive dust/air mixture 1. Limiting the concentration of combustible dusts 2. Avoiding effective ignition sources 3. Constructional explosion protection 0. Explosion-resistant design 1. Explosion venting 2. Explosion suppression 3. Explosion decoupling, isolaton (prevention of explosion propagation) 4. Appendix 5. ISSA oublication on explosion protection	English	2,000

	-10	1998	**Determination of the Combustion and Explosion Characteristics of Dusts (A5 32pages, 15figures)** 1. Sample preparation 2. Safety characteristics of dust layers 0. Flammability 1. Burning behavior 2. Minimum ignition temperature of a dust layer (solder temperature) 3. Self-ignition 4. Exothermic decomposition 0. Differential thermal analysis 1. Testing of storage life under adiabatic conditions (heat accumulation experiments) 5. Testing for spontaneous decomposition ("deflagration") 6. Impact sensitivity 3. Safety characteristics of dust suspensions 0. Explosibility 1. Modified Hertmann apparatus (open glass tube) 2. Testing in a closed vessel	English	2,000

			3. Maximum explosion pressure, maximum rate of pressure rise, Kmax (KSt value) 4. Explosibility limits 5. Limiting oxygen concentration 6. Minimum ignition energy 7. Minimum ignition temperature of a dust cloud		
	-11	1992	**Safety of Liquefied Gas Installation (Propane and Butane) A5 60pages, Figure 46** Definition of terms Properties and risks Measures for construction, equipping and installation General Supply facilities Consumption equipment Operation and preventive maintenance Operation Preventive maintenance Measures on liquefied gas escape with or without fire Inspection of liquefied gas installations ISSA publication	English	2,000

	-12	2000	**Gas Explosions Protection against explosions due to mixtures of flammable gases, vapors, or mists with air (A5 39pages, Figure 13)** Prerequisites for the occurrence of explosions Protective measures Prevention of dust explosions Avoidance of hazardous effects of dust explosions Organizational measures Design measures Safety parameters Reference ISSA publications on explosion protection	English	2,000
	-13	2006	**Practical Assistance for the Preparation of an Explosion Protection Document (A5 46pages Figure17)** 1. Instruction 2. Structure and layout 0. Description of the plant or process 1. Risk assessment 2. Technical measures 3. Organizational measures 4. Annexes 3. Area classification 0. Zone definition 1. Explanatory notes on the terms used in the zone definitions	English	2,000

			2. Basic zoning considerations 3. Practical examples Floor over a silo complex/Pneumatic conveying system/Filling of a silo truck via conveying system/Hydrogen storage/Gas supply station/Storage for flammable gas bottles/Paint spraying booth/Charging of combustible powders into highly flammable solvents/Charging of combustible powder into a reactor containing flammable solvent under inert gas/Solvent drum storage area and dispensing station/Fermentation tank of a external storage tank containing highly flammable liquid 4. Requirements for equipment and protective systems 5. Terms and definition 6. Literature 7. Picture credits		

set	No.	content	language	JpnY
	Static Electricity SET-1	**Tutorial Static Electricity CD-ROM Static Electricity** (Japanese version) Ignition Hazards and protection measures Rules for Plant Safety DVD film edited by Dr.M.Glor	Japanese English	10,000

	Static Electricity SET-2	**Tutorial Static Electricity CD-ROM Staric Electricity** **Ignition Hazards and protection measures** **Rules for Plant Safety** DVD film edited by Dr.M.Glor	English	10,000