

MTI Pub. No.	MTI Report # or "Old" Pub/Proj #	Title	Date Published
	AST-1	Aboveground Storage Tanks: A State-of-the-Art Review RETIRED	1990
	AST-2	Aboveground Storage Tanks Current Issues : Design, Operations, Maintenance, Inspection & the Environment – NACE Publication RETIRED	1992
	Bulletin 1	Regarding ISGHO: Guide Notes on the Safe Use of Stainless Steel in the Chemical Process Plant (Supplement to MTI Project 1 and Manual 1) RETIRED	1979
	Manual 1	Guidelines for Control of Stress Corrosion Cracking of Nickel-Bearing Stainless Steels & Nickel-base Alloys RETIRED	1979
	Manual 2	Recommended Procedures for Field Installation & Repair of Fiberglass Reinforced Plastic Equipment & Piping for Chemical Service RETIRED	1979
	Manual 3	Guideline Information on Newer Wrought Iron & Nickel Base Corrosion Resistant Alloys (and Revision/Addendum to Manual No. 3) RETIRED	1980
	Manual 4	State of the Art Survey of Nonchromatic Cooling Water Corrosion Inhibitors RETIRED	1980
	Manual 5	Performance & Reliability of Corrosion Resistant Alloy Castings – Phase I – Causes of Unsatisfactory Performance RETIRED	1981
	Manual 6	Performance & Reliability of Corrosion Resistant Alloy Castings – Phase II – Casting Discontinuities RETIRED	1981
	Manual 7	Practical Guide to the Use of Elastomeric Linings RETIRED	1983
	Manual 8	Fracture Control for the Chemical Process Industries RETIRED	1983
	T-2	Hydrodynamic Modeling of Corrosion of Carbon Steels & Cast Irons in Sulfuric Acid RETIRED	1992
	T-4	Prediction of Service Performance of Equipment Made of or Lined with Polymeric Materials RETIRED	1993
	Tech Rpt 1	Proposal to Improve Quality Assurance of Custom-Fabricated Fiber Reinforced Plastic Piping & Equipment Subjected to Severe or Critical Chemical Resistance Service RETIRED	1979

	Tech Rpt 2	A Study of the Feasibility of Nondestructively Testing Adhesively Bonded Joints in Reinforced Thermosetting Resin Pipe RETIRED	1980
	Tech Rpt 3	Electrochemical Monitoring of Occluded Cell Corrosion RETIRED	1981
	Tech Rpt 4	Investigation of Nondestructive Testing Techniques for Detecting Corrosion of Steel under Insulation) RETIRED	1981
	Tech Rpt 5	Narrative Summary of First Symposium on Shell & Heat Exchangers RETIRED	1981
	Tech Rpt 6	Cooling-Water Corrosion Inhibitor Program Performance Report Form RETIRED	1981
	Tech Rpt 7	Investigation of an Approach to Detection of Corrosion under Insulation RETIRED	1982
	Tech Rpt 8	A Sensor for Monitoring Crevice Corrosion: An Analysis & Evaluation RETIRED	1983
	10	Monograph on the Erosion of Materials by Solid Particle Impact RETIRED	1983
	11	Evaluation of the EPR Technique & the WC-5 Metal Sensitization Detector of Determining Susceptibility of Austenitic Stainless Steels to Intergranular Corrosion (with Erratum Sheet) RETIRED	1983
	12	Development of a Cell for Monitoring Stress Corrosion Cracking RETIRED	1984
	13	Micro-biologically Influenced Corrosion – A State of the Art Review RETIRED	1 st – 1984 2 nd – 1989
	17	Corrosion Under Heat Transfer Conditions RETIRED	1982
	19	Pyrophoric Surfaces on Zirconium Equipment: A Potential Ignition Hazard RETIRED	1986
	20	Evaluation of the ANSIB31.1 Impact Test Requirements for Small Diameter Piping RETIRED	1986
	21	Furan Reinforced Thermoset Plastics for Chemical Process Equipment RETIRED	1986
	22	Deep Penetrating Eddy Current Techniques to Detect Corrosion under Insulation RETIRED	1986
	23	Development of Controlled Hydrodynamic Techniques for Corrosion Testing RETIRED	1986
	24	Tube Wall Temperature Measurement in Fired Process Heaters RETIRED	1986
	25	Erosion of Materials by Liquid Flow RETIRED	1986
	27	Experience Survey Stress Corrosion Cracking of Austenitic Stainless Steels in Water RETIRED	1987
	28	Ultrasonic Inspection & Failure Analysis of Expansion Bellows RETIRED	1987
	33	Stress Corrosion Cracking Susceptibility of Weldments of Duplex Stainless Steels RETIRED	1989
	36	Evaluation of Test Methods for Asbestos Replacement Gasket Materials RETIRED	1990

	37	Development of Methods to Detect Sulfate Reducing Bacteria, Agents of Micro-biologically Influenced Corrosion RETIRED	1990
	38	Atmospheric Corrosion of Control Equipment RETIRED	1993
9070-M9	Manual 9	Refractories for the Chemical Process Industries (plus supplement applicable ASTM standards)	1984
9080-14	14	Manual on Closure Bolting for the Chemical Process Industries CD	1984
9090-15	15	Guidelines for Preventing Stress Corrosion Cracking in the CPI	1985
9100-16	16	Eddy Current Field Examination of Nonferrous Heat Exchanger Tubing CD	1985
9160-18	18	Atlas of Corrosion & Related Failures RETIRED	1987
9170-26	26	Performance of Tubular Heat Exchanger in Sea Water in the CPI	1987
9200-32	32	Pyrophoric Behaviour & Combustion of Reactive Metals	1988
9230-34	34	Guidelines for Mothballing Process Plants	1989 &1998
9240-30	30	Guidelines for Assessing Fire & Explosion Damage	1 st – 1990 2 nd - 1996
9250-35	35	Summary Report on Elevated Temperature Tests for Asbestos-Free Gasket Materials (Summary of Pub. No. 36)	1990
9310-T1	T-1	Corrosion of Stainless Steels in 93% & 98.5% Sulfuric Acid RETIRED	1992 & 1993
9330-T3	T-3	The Development of Controlled Hydrodynamic Techniques for Corrosion Testing RETIRED	1992
9360-40	40	Inspection Guidelines for Pressure Vessels & Piping – Vol 1: New Fabrication	1993 & 1996
9370-42	42	Thermal Spray Coating Applications in the Chemical Process Industries	1993
9380-45	45	Corrosion Control in the Chemical Process Industries –2 nd Edition	1994 & 1997
9390	PIP-1	1 st International Symposium on Process Industry Piping	1993
9410-43	43	Materials of Construction for Once-Through Water Systems	1995 & 1998
9420-41	41	Localized Corrosion in Halides other than Chlorides RETIRED	1995
9430-39	39	Limitations of the Slow Strain Rate Test for Stress Corrosion Cracking Testing	1995
9440-44	44	Materials Engineering & Risk Management in Chemical Plant Operations	1995
9450-46	46	Corrosion Testing of Iron & Nickel Based Alloys Part I: Test Methods	1995
9460- 47	47	Corrosion Testing of Iron & Nickel Based Alloys Part II: Test Data	1996

9480-48	48	Second International Symposium of the Mechanical Integrity of Process Piping	1996
9490-49	49	Inspection Guidelines for Pressure Vessels & Piping – Volume 2: Manual & Pocket Guides	1996
9493		Laminated Pocket Guides: Inspection Guidelines for Pressure Vessels & Piping – Volume 2 Laminated Pocket Guides	1996
9494		Pressure Vessels & Piping Inspection Checklists on Computer Disk CD	1996
9495	50	User's Guide to ASME Standards for Fiberglass Tanks & Vessels	1996
9496	MS-1	Concentrated Sulfuric Acid & Oleum 2 nd Edition	1 st – 1997 2 nd - 2005
9497-51	51	Cleaning of Process Equipment & Piping RETIRED	1997
9498	MS-2	Formic, Acetic & Other Organic Acids	1997 & 2005
9499-R1	R-1	Case History: Improper Materials, Fabrication & Documentation	1996
9500-R2	R-2	Cast Iron & Ductile Cast Iron in Steam	1997
9501-R3	R-3	Surface Preparation of Carbon & Stainless Steels for Non-Destructive Detection of Surface Crack	1997
9502-R4	R-4	Corrosion Failure Mechanisms in Process Industries: A Compilation of Experiences	1997
9503-R5	R-5	Aboveground Tank Bottom Inspections: State-of-the-Art Review of NDE	1997
9504-R6	R-6	Spark Testing of Corrosion Resistant Linings Part I: Review of Practices Part II: Evaluation of Critical Parameters	1997
9505-52	52	Carburization – A High Temperature Corrosion Phenomenon	1998
9506-R7	R-7	Materials to Control Explosion Damage: An Engineering Assessment of State-of-the-Art Blast Capacity Enhancing Products	1998
9507-R8	R-8	Non-Destructive Evaluation (NDE) Methods for Inspecting Polymer Vessels Used in Process Industries – A Review	1998
9508	MS-3	Hydrochloric Acid, Hydrogen Chloride & Chlorine	1999
9510-R9	R-9	Detection of Corrosion through Insulation – Test Program CD	1999
9511-R10	R-10	Flaw Detection & Characterization in Heat Exchanger Tubing	1999
9512	54	Unusual Corrosion Problems in Chemical Process Industry	2000
9513	53	Permeation of Polymers in Process Industry Applications CD	2000
9514-R13	R-13	An Overview of Metal Dusting	2001
9515	129	A Practical Guide to Field Inspection of FRP Equipment & Piping CD	2001
9517	MS-4	MS-4 Hydrogen Fluoride & Hydrofluoric Acid	2003

9518	MS-5	MS-5 Nitric Acid	2004
9519		Materials Selection for the Chemical Process Industries	2004
9520		Guidelines for Troubleshooting Water Cooled Heat Exchangers	2004
9521	MS-6	MS-6 Ammonia & Caustic Soda	2004
9522	MS-7	MS-7 Phosphoric Acid	2004
	MS-1 to MS-7	Complete Set: Material Selector Series (all 7 Volumes)	2004
9523		MS Series on CD: All 7 MS Series publications available in electronic format & completely searchable CD	2005
9524-R16	R-16	Literature Search: Probability of Detection of Defects in Heat Exchangers	1985
9525-R17	R-17	MTI Guide to Elastomers Testing for Chemical Resistance Applications	2004
9526	56	Implementing & Evergreening RBI in Process Plants	2005
9527-R18	R-18	Microwave Sensor Field Test for Non-Destructive Inspection of FRP Quench Tanks & Scrubbers	2004
9528-R19	R-19	Nondestructive Test Methods for Furnaces	2004
9530-R20	R-20	Permeation Testing Protocol: Establishing Procedures & Guidelines	2005
9531-R11	R-11	Microwave Sensor for Detection of Subsurface Blisters in Fiber Reinforced Composites	2000
9532-R12	R-12	Cooling Tower Water Treatment	2004
9533-R14	R-14	Selection & Use of Flux Cored & Gas Metal Arc Welding Processes in the Chemical Process Industry	2004
9534-R15	R-15	Procedures for Qualifying Personnel in Flange Joint Assembly	2005
9535		Recognizing Corrosion – A Process Safety Management Computer Based Training Module CD	2006
9536		Fiber Reinforced Plastic Flange Design	2007
9537		Instrumentation Reliability Manual	2007
9538		Atlas of Microstructures (Book includes CD)	2008
9539	170-05	Guidance for Plant Personnel in Gathering Data & Samples for Materials Failure Analysis	2009
9540	173-06	Repair & Damage Assessment for Glass-Lined Equipment	2009
9541	159-04	User's Guide for Evaluating New Polymer Systems	2009

MTI Publications and Products may be ordered online from www.mtiproducts.org.

RETIRED MTI Publications are available from the Linda Hall Library, www.lindahall.org, 816-926-8791.

Corrosion and Materials Awareness DVD's

(Available from First Group Media Resources, www.firstgroupmedia.com, 281-890-9999)

- Part One: Recognizing Corrosion
- Part Two: Materials Mix-Ups
- Part Three: Nondestructive Testing
- Stainless Steels
- Repair Welding
- Closure Bolting