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Wastewater | Water | Waste

2018



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Clear concepts. Clean environment. Shaping the future with the DWA.

The German Association for Water, Wastewater and Waste is the technical-scientific professional association which brings together the specialists and managers of the water and waste management sector from municipalities, universities, engineering firms, government agencies and companies under one roof. The DWA formulates technical standards, contributes to standardisation work, supports research, promotes training and further training, and advises politics, science and the economy. DWA was established in 1948. It is nationally and internationally active.



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DWA PUBLICATIONS

Set of Rules

DWA experts formulate new findings as well as proven technical procedures in standards and guidelines and thus make an important contribution to the protection of the environment and material goods. They transform legal requirements into practical recommendations for action.

Journals, software, books

The journals *KA – Korrespondenz Abwasser* and *KW – Korrespondenz Wasserwirtschaft*, software for the application of technical rules, specialist books, summary reports, dictionaries and brochures provide target-group-specific information and support engineers, operating staff and municipalities in their everyday work.

DWA TRAINING

Events and competitions

Continuous vocational qualification and targeted youth development are important offers by the DWA. Conferences, seminars and other professional events keep engineers and operating personnel up to date. Professional competitions for aspiring academics and specialist staff motivate and draw the attention of employers to good employees.

International activities

Internationally, the DWA cooperates with state development cooperation organisations. It trains multipliers, develops curricula and compiles teaching materials, in order to qualify the operating personnel of water management plants abroad, thereby improving the environmental, social and occupational safety standards.



Photo: tech_studio/www.vtoia.com

Publications in English language

DWA Set of Rules/Software

is viewed in Germany as the general basis for planning, construction and operation of plants in water, wastewater and waste management, as well as in soil conservation. So the standards of DIN and DWA are of equal importance for the water sector.

	Title	Page
CD-ROM	Collection of DWA Set of Rules, which are available in English	9
Technical Pocketbook	DWA Technical Pocketbook German Water Technology – Operation and Maintenance of Drain and Sewer Systems	9
DWA-A 100E	Guidelines of Integrated Urban Drainage (IUD)	6
ATV-A 106E	Design/Construction of Wastewater Treatment Facilities	6, 9
Software DWA-A 110, 111 and 112	Hydraulics Expert	6
DWA-M 114E	Energy from Wastewater – Thermal and Potential Energy	6, 9
DWA-A 116-1E	Vacuum Sewerage Systems Outside Buildings	6
DWA-A 116-2E	Pressure Sewerage Systems Outside Buildings	6
DWA-A 118E	Hydraulic Dimensioning and Verification of Drainage Systems	6
DWA-A 125E	Pipe Jacking and Related Techniques	6
Software ATV-DVWK-A 127	Statics Expert – Open Cut	6
ATV-A 128E	Stormwater Structures in Combined Sewers	7
DWA-A 131E	Dimensioning of Single-stage Activated Sludge Plants	9
Software ATV-DVWK-A 131E	Activated Sludge Expert	10
DWA-A 133E	Valuation of Wastewater Systems – Systematic Recording, Assessment and Updating	16
ATV-DVWK-A 134E	Wastewater Pumping Stations	7
DWA-A 138E	Facilities for the Percolation of Precipitation Water	7
DWA-A 139E	Construction and Testing of Drains and Sewers	7
Software DWA-A 143-2	Statics Expert – Rehabilitation	6
DWA-M 143-17E	Coating Wastewater Conduits, Pipes and Shafts with Cement-bonded Mortars	7
DWA-M 144-3E	ZTV – Renovation with Hose Liner Process	7
DWA-M 149-4E	Detection of Bedding Defects and Cavities	7
Software DWA-M 151	MDMS Expert – Measurement Data Management System	8
DWA-M 153E	Recommended Actions for Dealing with Stormwater	8
ATV-DVWK-A 157E	Sewer System Structures	8
DWA-A 161E	Static Calculation of Jacking Pipes	8
Software DWA-A 161	Statics Expert – Pipe Jacking	6
DWA-M 180E	Planning of Real Time Control of Sewer Networks	8
ATV-DVWK-A 198E	Dimensioning Values for Wastewater Facilities	8, 10
DWA-A 199-1E	Service Instructions Wastewater Systems	8, 10
DWA-A 199-2E	Operating Instructions for the Personnel of Sewerage Systems and Stormwater Treatment Facilities	8, 10
DWA-A 199-3E	Operating Instructions for the Personnel of Wastewater Pumping Installations	8, 10
DWA-A 199-4E	Operating Instructions Wastewater Treatment Plants	8, 10
ATV-A 200E	Wastewater in Rurally Structured Areas	8, 10
ATV-A 203E	Wastewater Filtration	10
ATV-M 204E	Status and Application of Emission Reduction Technology with Sewage Treatment Plants – Odours, Aerosols	10
ATV-DVWK-M 206E	Automation of Chemical Phosphate Removal	10
DWA-A 216E	Energy Check and Energy Analysis – Instruments to Optimise the Energy Usage of Wastewater Systems	10
DWA-A 262E	Principles for Dimensioning, Construction and Operation of Wastewater Treatment Plants with Planted and Unplanted Filters for Treatment of Domestic and Municipal Wastewater	10
DWA-M 269E	Process Analysis Equipment for Nitrogen, Phosphorus and Carbon in Wastewater Treatment Systems	11
DWA-A 272E	Principles for the Planning and Implementation of New Alternative Sanitation Systems (NASS)	11
DWA-M 277E	Information on Design of Systems for the Treatment and Reuse of Greywater and Greywater Partial Flows	11
ATV-DVWK-A 281E	Dimensioning of Trickling Filters and Rotating Biological Contactors	11
ATV-DVWK-M 362-2E	Handling of Dredged Material – Part 2: Case Studies	12, 13
DWA-M 366E	Mechanical Dewatering of Sewage Sludge	12
DWA-M 376E	Safety Regulations for Biogas Holders	12

ATV-DVWK-M 379E	Drying of Sewage Sludge	12	DIN EN 1671/DWA-A 116-2E Pressure Sewerage Systems Outside Buildings	6
DWA-M 381E	Sewage Sludge Thickening	12	DIN EN 12889/DWA-A 125E Trenchless Construction and Testing of Drains and Sewers/Pipe Jacking and Related Techniques	6
DWA-M 386E	Thermal Treatment of Sewage Sludge – Mono-Incineration	12	Dynamic Cost Comparison Calculations for selecting least-cost projects in Water Supply and Wastewater Disposal – DCCC-Appraisal Manual for Project Designers	16
DWA-M 387E	Thermal Treatment of Sewage Sludge – Co-Incineration in Power Plants	12	Environmental Engineering Occupations	14
DWA-A 400E	Principles for the Preparation of DWA Rules and Standards	16	Volume 1: Water Supply Engineering Technician	
ATV-DVWK-M 503E	Investigation/Remediation of Tailings Impoundments	13	Volume 2: Sewage Engineering Technician	
DWA-M 507-1E	Levees Built Along Watercourses	13	Volume 3: Recycling and Waste Management Technician	
DWA-M 512-1E	Sealing Systems in Hydraulic Engineering – Part 1: Earthwork Structures	13	Fit in Wastewater Technology?	11, 14
DWA-M 514E	Dam Surveillance	13	Manual for Archimedean Screw Pump	12
DWA-M 803E	Cost Structures in Wastewater Engineering	16	New Alternative Sanitation Systems – NASS	12
DWA-M 804E	Economic Efficiency of Wastewater and Waste Facilities	13, 16	Operational Problems in Wastewater Treatment Plants	12
ATV-DVWK-M 807E	Allocation of Production Costs and Maintenance Expenditure for Sewage Plants	16	Profile of the German Water Sector 2015	16
DWA-M 1100E	Benchmarking in Water Supply and Wastewater Disposal	16	Public Relations Brochures	16
			Pumps and pumping stations	12
			Wastewater Engineering in Question and Answer for Trainees, Instructors and in Daily Operation	14

DWA Topics

Anthropogenic Trace Pollutants in the Water Cycle – Pharmaceuticals	11
Corporate Benchmarking – Metric Benchmarking as Component of the Modernisation Strategy – Performance Indicators and Evaluation Principles	16
Design of Wastewater Treatment Plants in Hot and Cold Climatic Zones	11
Fish Protection Technologies and Downstream Fishways – Dimensioning, Design, Effectiveness, Inspection	13
Treatment of Industrial Wastewater and Process Water with Membrane Processes and Membrane Bioreactor Technology	13
Treatment Steps for Water Reuse – former Title: Assessment of Process Steps for the Treatment of Wastewater for Reuse	11

Further Publications

Applied Process Engineering in Industrial Wastewater Treatment	14
Basic Process Engineering in Industrial Wastewater Treatment	14
Dictionaries	19
DIN EN 1091/DWA-A 116-1E Vacuum Sewerage Systems Outside Buildings	6
DIN EN 1610/DWA-A 139E Construction and Testing of Drains and Sewers	7

Training Systems

Biogas	15
Road Site Safety	15
Environment/Water-Waste-Energy	15
Wastewater	15

Publications in other languages

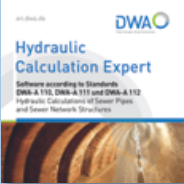
	Page
Arabic	20
Bulgarian	20
Chinese	20
Croatian	20
Czech	20
French	21
Hungarian	21
Italian	21
Polish	22
Portuguese/Brazilian	22
Romanian	22
Russian	22
Serbian	23
Spanish	24
Turkish	24

Drain and Sewer Systems

Unit price
Price for DWA-Corporate Members

Standard DWA-A 100E	Guidelines of Integrated Urban Drainage (IUD) December 2006, 40 pages, A4, ISBN 978-3-941089-71-6	41,00 € 32,80 €
Standard ATV-A 106E	Design and Construction Planning of Wastewater Treatment Facilities October 1995, 27 pages, A4, ISBN 978-3-934984-02-8 Also available in Czech  Hungarian  Polish  , see from page 20	26,00 € 20,80 €

Software **Hydraulics Expert** Hydraulic Calculation of Sewers and Special Structures



Software for hydraulic calculation of sewers and special structures.
Safe utilization of Standards DWA-A 110, DWA-A 111 and DWA-A 112

- **Version Standard** (based on DWA-A 110) 195,00 €
The link between models of sewer systems and the in practice often used pipe tables for complete and partial filling. 156,00 €
- **Version Professional** (based on DWA-A 110, DWA-A 111, DWA-A 112) 750,00 €
In addition hydraulic calculations of special structures, raids and spillways; detailed hydraulic calculation and verification of inverted siphons, gutters, crash steeps and vortex drop shafts. 600,00 €

For more information and demoversions visit our homepage <http://en.dwa.de/software-en.html>


Guideline DWA-M 114E	Energy from Wastewater – Thermal and Potential Energy June 2009, 48 pages, A4, ISBN 978-3-944328-27-0	42,00 € 33,60 €
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Standard DWA-A 116-1E	Special Sewerage Systems – Part 1: Vacuum Sewerage Systems Outside Buildings March 2005, 29 pages, A4, ISBN 978-3-939057-46-8	38,00 € 30,40 €
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DIN EN 1091/ DWA-A 116-1E	Vacuum Sewerage Systems Outside Buildings/Special Sewerage Systems – Part 1: Vacuum Sewerage Systems Outside Buildings April 2005, 55 pages, A4, ISBN 978-3-940173-66-9	75,00 € 60,00 €
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Standard DWA-A 116-2E	Special Sewerage Systems – Part 2: Pressure Sewerage Systems Outside Buildings May 2007, 27 pages, A4, ISBN 978-3-940173-54-6	38,00 € 30,40 €
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DIN EN 1671/ DWA-A 116-2E	Pressure Sewerage Systems Outside Buildings/Special Sewerage Systems – Part 2: Pressure Sewerage Systems Outside Buildings September 2007, 42 pages, A4, ISBN 978-3-940173-67-6	60,00 € 48,00 €
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Standard DWA-A 118E	Hydraulic Dimensioning and Verification of Drain and Sewer Systems March 2006 incl. correction July 2012, 35 pages, A4, ISBN 978-3-940173-51-5 Also available in Serbian  , see from page 23	52,00 € 41,60 €
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Standard DWA-A 125E	Pipe Jacking and Related Techniques December 2008, 69 pages, A4, ISBN 978-3-941897-09-0	62,00 € 49,60 €
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DIN EN 12889/ DWA-A 125E	Trenchless Construction and Testing of Drains and Sewers/Pipe Jacking and Related Techniques May 2009, 92 pages, A4, ISBN 978-3-942964-37-1	98,00 € 78,40 €
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Software **Statics Expert** Structural Calculation of Buried Pipes and Liners



Standard Edition

- **Module Open Cut** (based on ATV-DVWK-A 127) 1.551,50 €
The Calculation-module Open Cut is suitable for the structural calculation of buried pipes. It allows for the dimensioning of pipes of all materials mentioned in Standard ATV-DVWK-A 127. 1.241,20 €
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Driven Pipes can be statically designed using the calculation module Pipe Jacking. The Standard DWA-A 161 is the first standard which contains rules for the structural calculation of pipes according to the current DIN-Standards (Eurocode). It works with partial safety coefficients. 1.583,60 €



■ Module DWA complete (Open Cut and Pipe Jacking)	2.728,50 € 2.182,80 €
■ Module Rehabilitation (based on DWA-A 143-2) Rehabilitation of Drainage Systems Outside Buildings – Static Calculation for the Rehabilitation of Drains and Sewers with Lining- and Assembly Procedures.	2.407,50 € 1.926,00 €
Professional Edition	
■ Module Open Cut (based on ATV-DVWK-A 127) The Calculation-module Open Cut is suitable for the structural calculation of buried pipes. It allows for the dimensioning of pipes of all materials mentioned in Standard ATV-DVWK-A 127.	2.086,50 € 1.669,20 €
■ Module Pipe Jacking (based on DWA-A 161) Driven Pipes can be statically designed using the calculation module Pipe Jacking. The Standard DWA-A 161 is the first standard which contains rules for the structural calculation of pipes according to the current DIN-Standards (Eurocode). It works with partial safety coefficients.	2.514,50 € 2.011,60 €
■ Module DWA complete (Open Cut and Pipe Jacking)	3.263,50 € 2.610,80 €
■ Module Rehabilitation (based on DWA-A 143-2) Rehabilitation of Drainage Systems Outside Buildings – Static Calculation for the Rehabilitation of Drains and Sewers with Lining- and Assembly Procedures.	2.942,50 € 2.354,00 €

For more information and demoversions visit our homepage <http://en.dwa.de/software-en.html>

All prices include the service level agreement for one year. After this, the service fee amounts to 15% of the license prize. The service includes updates and technical support.

Standard ATV-A 128E	Standards for the Dimensioning and Design of Stormwater Structures in Combined Sewers April 1992, 74 pages, A4, ISBN 978-3-934984-17-2 Also available in Czech  French  , see from page 20	47,00 € 37,60 €
Standard ATV-DVWK-A 134E	Planning and Construction of Wastewater Pumping Stations June 2000, 49 pages, A4, ISBN 978-3-937758-45-9	45,50 € 36,40 €
Standard DWA-A 138E	Planning, Construction and Operation of Facilities for the Percolation of Precipitation Water April 2005, 60 pages, A4, ISBN 978-3-937758-74-9	43,00 € 34,40 €
Standard DWA-A 139E	Construction and Testing of Drains and Sewers December 2009, 74 pages, A4, ISBN 978-3-941897-26-7	64,00 € 51,20 €
DIN EN 1610/ DWA-A 139E	Construction and Testing of Drains and Sewers January 2010, 104 pages, A4, ISBN 978-3-941897-67-0	107,00 € 85,60 €
Guideline DWA-M 143-17E	Rehabilitation of sewerage systems – Part 17: Coating Wasterwater Conduits, Pipes and Shafts with Cement-bonded Mortars December 2006, 32 pages, A4, ISBN 978-3-941089-24-2	32,00 € 25,60 €
Guideline DWA-M 144-3E	Supplementary Technical Contract Conditions (ZTV) for the Rehabilitation of Drainage Systems Outside of Buildings – Part 3: Renovation with Hose Liner Process (locally cured hose liner) for Sewers November 2012, 43 pages, A4, ISBN 978-3-944328-10-2 Also available in Chinese  Czech  French  Italian  Polish  Russian  Spanish  , see from page 20	78,00 € 62,40 €
Guideline DWA-M 149-4E	Conditions and Assessment of Drain and Sewer Systems Outside Buildings – Part 4: Detection of Bedding Defects and Cavities by Means of Geographical Techniques July 2008, 32 pages, A4, ISBN 978-3-941089-85-3, check 2017 approved by experts	38,00 € 30,40 €

Publications in English language

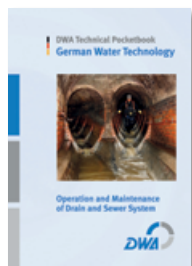
Software		MDMS (Measurement Data Management System) Expert Professional	
		The starting point for a powerful data management in drainage systems [according to DWA-M 151]	
	MDMS is		2.530,00 €
	<ul style="list-style-type: none"> ■ to consolidate data from different sources ■ to make data readable for everybody ■ to control, correct and administrate data from a central point ■ to visualize and evaluate data conclusively ■ to convert data easily into reports, statistics and reporting systems 		2.024,00 €
	In short make your data productive!		
	For more information and demoversions visit our homepage http://en.dwa.de/software-en.html		
	All prices include the service level agreement for the calendar year of purchase. After this, the service fee amounts to 15% of the net license prize. The service includes updates and technical support.		
Guideline DWA-M 153E	Recommended Actions for Dealing with Stormwater		41,00 €
	August 2007, 35 pages, A4, ISBN 978-3-941089-97-6		32,80 €
	Also available in French  , see from page 21		
Standard ATV-DVWK-A 157E	Sewer System Structures		34,50 €
	November 2000, 32 pages, A4, ISBN 978-3-937758-46-6		27,60 €
Standard DWA-A 161E	Static Calculation of Jacking Pipes		
	March 2014, 99 pages, A4, ISBN 978-3-88721-245-2, the content of the Standard DWA-A 161 and the DVGW code of practice GW 312 is identical		83,00 €
	This Standard applies to the structural calculation of pipes with a circular cross-section which are installed according to the pipe jacking method in a straight or bending direction in non-cohesive or cohesive soils (loose soils as per DIN 18319) with static force in accordance with Standard DWA-A 125/ DVGW GW 304. This Standard can be applied analogously to pipes that are driven with dynamic energy. Unless otherwise mentioned in this Standard, it also applies to pipe jacking using related methods with the appropriate adjustments.		66,40 €
Software		Statics Expert – Structural Calculation	
		see page 6	
Guideline DWA-M 180E	Framework for Planning of Real Time Control of Sewer Networks		45,00 €
	December 2005, 51 pages, A4, ISBN 978-3-939057-28-4		36,00 €
Standard ATV-DVWK-A 198E	Standardisation and Derivation of Dimensioning Values for Wastewater Facilities		40,50 €
	April 2003, 50 pages, A4, ISBN 978-3-924063-63-4		32,40 €
Standard DWA-A 199-1E	Service and Operating Instructions for the Personnel of Wastewater Systems – Part 1: Service Instructions for the Personnel of Wastewater Systems		35,00 €
	November 2011, 31 pages, A4, 978-3-944328-47-8, check 2017 approved by experts		28,00 €
Standard DWA-A 199-2E	Part 2: Operating Instructions for the Personnel of Sewerage Systems and Stormwater Treatment Systems		39,00 €
	July 2007, 40 pages, A4, ISBN 978-3940173-31-7		31,20 €
Standard DWA-A 199-3E	Part 3: Operating Instructions for the Personnel of Wastewater Pumping Installations		48,00 €
	June 2007, 48 pages, A4, ISBN 978-3940173-32-4		38,40 €
Standard DWA-A 199-4E	Part 4: Operating Instructions for the Personnel of Wastewater Treatment Plants		57,00 €
	August 2006, 79 pages, A4, ISBN 978-3-940173-19-5		45,50 €
	Also available in Arabic  , see page 20		
Standard ATV-A 200E	Principles for the Disposal of Wastewater in Rurally Structured Areas		34,50 €
	May 1997, 31 pages, A4, ISBN 978-3-934984-32-5		27,60 €
	Also available in Polish  , see from page 22		

Technical Pocketbook

DWA Technical Pocketbook German Water Technology – Operation and Maintenance of Drain and Sewer Systems

March 2014, 359 pages, A5, ISBN 978-3-944328-41-6

This Pocketbook contains a selection of DWA-Standards and Guidelines for the operation and maintenance of drain and sewer systems in a concise format. It is written for engineers, technical decision makers, consultants and all companies operating in the field of drainage systems as a guideline for implementation.



59,00 €
47,20 €

CD-ROM

DWA Set of Rules – English Version on CD-ROM

New Edition



Edition April 2018 – English translations of significant publications of the DWA Set of Rules, 49 DWA Standards and Guidelines, 4 DWA Topics and various brochures in PDF format (single user)

DWA Publications are viewed as the basis for planning, construction, improvement and operation of plants in water, wastewater and waste management, as well as in soil conservation.

The DWA Set of Rules consists of Standards and Guidelines. Standards describe the generally accepted rules of technology. Guidelines describe the state of the art. This CD-ROM additionally contains DWA Topics which present elementary results from the honorary work of the DWA specialist groups. Furthermore, you will find selected brochures for your information and public relations work.

298,00 €
238,40 €

Update 2018

Only for customers of the April 2016 Version

129,00 €
103,20 €

Training System with Magnetic Cards

Modular Training Systems – Wastewater/Environment/Biogas/Building Site Safety

A picture is worth a thousand words!

Colourful magnetic cards depicting the most important stages and process steps on wastewater treatment plants, in the water, waste and energy sector and in biogas plants. Illustrate complex situations in an easy and comprehensible way in:

- teaching or education,
- training of new, non-specialist or external staff,
- public relations, presentations or events.

see page
15


Municipal Wastewater Treatment

Unit price
Price for DWA-Corporate Members

Standard
ATV-A 106E

Design and Construction Planning of Wastewater Treatment Facilities

October 1995, 27 pages, A4, ISBN 978-3-934984-02-8

Also available in Czech  Hungarian  Polish , see from page 20

26,00 €
20,80 €

Guideline
DWA-M 114E

Energy from Wastewater – Thermal and Potential Energy

June 2009, 48 pages, A4, ISBN 978-3-944328-27-0

42,00 €
33,60 €

Standard
DWA-A 131E

Dimensioning of Single-stage Activated Sludge Plants

New



in preparation 2018, 68 pages, A4, ISBN Print: 978-3-88721-643-6, ISBN E-Book: 978-3-88721-644-3

Using the dimensioning values recommended in this Standard, the minimum requirements for municipal wastewater with single-stage activated sludge plants can be met or bettered at national level. In contrast to earlier editions, in which the dimensioning procedure for nitrifying and denitrifying activated sludge plants was based on the measured BOD₅ load, the design is now based exclusively on the COD load. Standard DWA-A 131 deals not only with the description of the process, the design procedure and the design bases, but also with the calculation of the mass of the sludge and the design of the secondary treatment and sludge activation.

81,50 €
65,20 €

Publications in English language

<p>Software</p> 	<p>Activated Sludge Expert Software for Standard ATV-DVWK-A 131E (May 2000) Dimensioning of Single-Stage Activated Sludge Plants</p>	<p>new version in prepara- tion</p>	<p>275,00 € 220,40 €</p>
<p>Standard ATV-DVWK-A 198E</p>	<p>Standardisation and Derivation of Dimensioning Values for Wastewater Facilities April 2003, 50 pages, A4, ISBN 978-3-924063-63-4</p>		<p>40,50 € 32,40 €</p>
<p>Standard DWA-A 199-1E</p>	<p>Service and Operating Instructions for the Personnel of Wastewater Systems – Part 1: Service Instructions for the Personnel of Wastewater Systems November 2011, 31 pages, A4, ISBN 978-3-944328-47-8, check 2017 approved by experts</p>		<p>35,00 € 28,00 €</p>
<p>Standard DWA-A 199-2E</p>	<p>Part 2: Operating Instructions for the Personnel of Sewerage Systems and Stormwater Treatment Systems July 2007, 40 pages, A4, ISBN 978-3940173-31-7</p>		<p>39,00 € 31,20 €</p>
<p>Standard DWA-A 199-3E</p>	<p>Part 3: Operating Instructions for the Personnel of Wastewater Pumping Installations June 2007, 48 pages, A4, ISBN 978-3940173-32-4</p>		<p>48,00 € 38,40 €</p>
<p>Standard DWA-A 199-4E</p>	<p>Part 4: Operating Instructions for the Personnel of Wastewater Treatment Plants August 2006, 79 pages, A4, ISBN 978-3-940173-19-5 Also available in Arabic , see page 20</p>		<p>57,00 € 45,60 €</p>
<p>Standard ATV-A 200E</p>	<p>Principles for the Disposal of Wastewater in Rurally Structured Areas May 1997, 31 pages, A4, ISBN 978-3-934984-32-5 Also available in Polish , see from page 22</p>		<p>34,50 € 27,60 €</p>
<p>Standard ATV-A 203E</p>	<p>Wastewater Filtration Using Space Filters following Biological Treatment April 1995, 18 pages, A4, ISBN 978-3-934984-34-9</p>		<p>26,00 € 20,80 €</p>
<p>Guideline ATV-M 204E</p>	<p>Status and Application of Emission Reduction Technology with Sewage Treatment Plants – Odours, Aerosols October 1996, 78 pages, A4, ISBN 978-3-934984-47-9</p>		<p>40,50 € 32,40 €</p>
<p>Guideline ATV-DVWK-M 206E</p>	<p>Automation of Chemical Phosphate Removal November 2001, 23 pages, A4, ISBN 978-3-937758-63-3</p>		<p>43,50 € 34,80 €</p>
<p>Standard DWA-A 216E</p>	<p>Energy Check and Energy Analysis – Instruments to Optimise the Energy Usage of Wastewater Systems</p>	<p>New</p>	<p>80,00 € 64,00 €</p>
	<p>December 2015, 64 pages, A4, ISBN 978-3-88721-570-5 The Standard introduces the energy check and energy analysis as instruments for energy optimisation of wastewater systems and formulates requirements for their execution. The scope of application of this Standard covers wastewater treatment plants and wastewater collecting. Analogue to pumping stations in wastewater treatment plants, pumping stations in the field of wastewater collecting are open to an energetic assessment by means of the presented approaches. At present no adequate systematically collected operational experience has been gained in the field of rainwater and combined wastewater treatment plants (e.g. retention soil filters etc.). The same applies for compressed air flow, pneumatic conveyance, vacuum drainage and pressure main networks. This Standard provides planners, operators and competent authorities with a practice-oriented and scientifically sound working aid for the procedural and energetic optimisation of wastewater systems and a consistent methodology.</p>		
<p>Standard DWA-A 262E</p>	<p>Principles for Dimensioning, Construction and Operation of Wastewater Treatment Plants with Planted and Unplanted Filters for Treatment of Domestic and Municipal Wastewater</p>	<p>New</p>	<p>83,50 € 66,80 €</p>
	<p>November 2017, 63 pages, A4, ISBN Print: 978-3-88721-641-2, ISBN E-Book: 978-3-88721-642-9 This Standard provides you with a uniform basis for the design, construction and operation of soil filters for the biological treatment of municipal wastewater. Newer test results for primary treatment in multi-compartment septic tanks were taken into account and new types of soil filters were added. In addition, plants with raw wastewater filters, plants processing wastewater from combined sewer networks, a two-stage process with vertical flow filters, artificially aerated soil filters, specifications for seasonally loaded treatment systems and systems for greywater treatment were described in detail.</p>		

Guideline
DWA-M 269E

Process Analysis Equipment for Nitrogen, Phosphorus and Carbon in Wastewater Treatment Systems

March 2008, 51 pages, A4, ISBN 978-3-941089-39-6

46,00 €
36,80 €

Standard
DWA-A 272E

Principles for the Planning and Implementation of New Alternative Sanitation Systems (NASS)



In preparation 2018, 34 pages, A4, ISBN Print: 978-3-88721-645-0,
ISBN E-Book: 978-3-88721-646-7

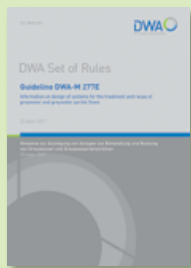
This Standard provides you with important information on the main features of new alternative sanitation systems as well as a comprehensive overview of the current state of the art. Besides the boundary conditions, under which the use of new alternative sanitation systems can be particularly advantageous, you are equipped with basic procedures for conceptualization and planning. So that you can make optimum use of innovative sanitary systems in terms of design, planning, construction and operation, the special features are highlighted in comparison to conventional systems.

New

43,50 €
34,80 €

Guideline
DWA-M 277E

Information on Design of Systems for the Treatment and Reuse of Greywater and Greywater Partial Flows



In preparation 2018, 34 pages, A4, ISBN Print: 978-3-88721-647-4,
ISBN E-Book: 978-3-88721-648-1

This Guideline provides information and assistance for the planning, design, construction, operation and maintenance of greywater treatment and reuse systems for different applications, or for the purpose of discharge into a receiving water body. Systems which do not treat the generated greywater are not covered in this document.

New

46,50 €
37,20 €

Standard
ATV-DVWK-A 281E

Dimensioning of Trickling Filters and Rotating Biological Contactors

September 2001, 24 pages, A4, ISBN 978-3-937758-36-7

27,50 €
22,00 €

DWA Topics

Anthropogenic Trace Pollutants in the Water Cycle – Pharmaceuticals

May 2008, 86 pages, A4, ISBN 978-3-941089-51-8

35,00 €
28,00 €

DWA Topics

Design of Wastewater Treatment Plants in Hot and Cold Climatic Zones



In preparation 2018, 308 pages, A4, ISBN Print: 978-3-88721-615-3,
ISBN E-Book: 978-3-88721-616-0

The design of wastewater treatment plants under deviating wastewater and climatic conditions in other countries requires an internationally applicable approach. Target regions of this topic are hot and cold climatic zones, frequently comprising developing, emerging and transition economies. Apart from the extension and adaptation of the design specifications to the special conditions in an international context, the design algorithms in this topic were all converted for the treatment target of carbon reduction to the chemical oxygen uptake (COD) which, among others, allows the balancing of sludge formation. Additionally, practicable model computations were compiled for all processes.

New

98,00 €
78,40 €

DWA Topics

Treatment Steps for Water Reuse – former Title: Assessment of Process Steps for the Treatment of Wastewater for Reuse

May 2008, 30 pages, A4, ISBN 978-3-941089-79-2

Only available for download. Also available in Spanish , see page 24

15,00 €
12,00 €



Fit in Wastewater Technology?

Recised Edition 2016, 111 pages, A4, ISBN Print: 978-3-88721-247-6,
ISBN E-Book: 978-3-88721-330-5

Also available in Russian (see page 23) and as Flashcard app, see www.brainyoo.com

This new concept was specifically developed for the practical and comprehensible transfer of knowledge for the occupation of „wastewater engineering technician“. The book contains conventional multiple-choice questions plus questions related to situations for the better understanding of processes, expedition questions to apply the theory to the practical work on a wastewater treatment plant and questions for reflection which should be discussed and solved with a trainer.

29,50 €
29,50 €

Publications in English language

Technical Book	Manual for Archimedean Screw Pump Adviser and decision guidance for planners, owners and decision-makers, by Dipl.-Ing. P.J. Kantert 2008, 140 pages, 34 mostly coloured figures, 12 tables, Hardcover, 24,5 x 17,5 cm, ISBN 978-3-88721-896-6	25,00 € 25,00 €
Training System with Magnetic Cards	Modular Training Systems – Wastewater/Environment/Biogas/Building Site Safety A picture is worth a thousand words! Colourful magnetic cards depicting the most important stages and process steps on wastewater treatment plants, in the water, waste and energy sector and in biogas plants. Illustrate complex situations in an easy and comprehensible way in: <ul style="list-style-type: none"> ■ teaching or education, ■ training of new, non-specialist or external staff, ■ public relations, presentations or events. 	see page 15
Technical Book	New Alternative Sanitation Systems – NASS Terminology, Material Flows, Treatment of Partial Flows, Utilisation 1st. edition 2016, 252 pages, A4, ISBN 978-3-95773-213-2, Bauhaus-Universitätsverlag Weimar	46,00 € 46,00 €
Practical Guideline	Operational Problems in Wastewater Treatment Plants – Handbook for the operation of wastewater treatment plants Dr.-Ing. Peter Baumann, Prof. Dr.-Ing. Karlheinz Krauth, Dr.-Ing. Werner Maier, Dr. Manfred Roth October 2012, 138 pages, A4, ISBN Print: 978-3-942964-15-9, ISBN E-Book: 978-3-88721-371-8	52,00 € 52,00 €

Brainyoo Flashcard and eLearning Suite	Pumps and pumping stations	New
	Ute Austermann-Haun, Hannes Felber, Achim Höcherl and others Self-learning material with nearly 200 questions and answers to pumps and pumping stations. The questions are part of a water and wastewater basic course of DWA in cooperation with GIZ. Chapter: Pumps; Maintenance of pumps; Pumping stations; Operational health and safety in pumping stations For order visit www.brainyoo.de	22,90 € 22,90 €

CD-ROM	DWA Set of Rules – English Version on CD-ROM	
	Edition April 2018 – English translations of significant publications of the DWA Set of Rules	see page 9

Recycling Management, Energy and Sewage Sludge

		Unit price Price for DWA-Corporate Members
Guideline ATV-DVWK-M 362-2E	Handling of Dredged Material – Part 2: Case Studies October 2004, 83 pages, A4, ISBN 978-3-940173-45-4	48,00 € 38,40 €
Guideline DWA-M 366E	Mechanical Dewatering of Sewage Sludge February 2013, 51 pages, A4, ISBN Print: 978-3-944328-28-7, ISBN E-Book: 978-3-88721-347-3	62,00 € 49,60 €
Guideline DWA-M 376E	Safety Regulations for Biogas Holders with Membrane Seals October 2006, 23 pages, A4, ISBN 978-3-940173-92-8	29,00 € 23,20 €
Guideline ATV-DVWK-M 379E	Drying of Sewage Sludge February 2004, 35 pages, A4, ISBN 978-3-937758-72-5	26,00 € 20,80 €
Guideline DWA-M 381E	Sewage Sludge Thickening October 2007, 36 pages, A4, ISBN 978-3-941897-43-4	39,00 € 31,20 €
Guideline DWA-M 386E	Thermal Treatment of Sewage Sludge – Mono-Incineration December 2011, 57 pages, A4, ISBN 978-3-942964-95-1	63,00 € 50,40 €
Guideline DWA-M 387E	Thermal Treatment of Sewage Sludge – Co-Incineration in Power Plants May 2012, 49 pages, A4, ISBN 978-3-942964-96-8	52,00 € 41,60 €

Guideline DWA-M 804E	Assurance of the Quality and Economic Efficiency of Wastewater and Waste Facilities also with the Performance of Tasks by Third Parties October 2007, 54 pages, A4, ISBN 978-3-941897-21-2	39,00 € 31,20 €
Training System with Magnetic Cards	Modular Training Systems – Wastewater/Environment/Biogas/Building Site Safety A picture is worth a thousand words! Colourful magnetic cards depicting the most important stages and process steps on wastewater treatment plants, in the water, waste and energy sector and in biogas plants. Illustrate complex situations in an easy and comprehensible way in: <ul style="list-style-type: none"> ■ teaching or education, ■ training of new, non-specialist or external staff, ■ public relations, presentations or events. 	see page 15

CD-ROM	DWA Set of Rules – English Version on CD-ROM	
	Edition April 2018 – English translations of significant publications of the DWA Set of Rules	see page 9

Hydraulic Engineering and Hydro Power/ Surface Water and Soil

Unit price
Price for DWA-Corporate Members

Guideline ATV-DVWK-M 362-2E	Handling of Dredged Material – Part 2: Case Studies October 2004, 83 pages, A4, ISBN 978-3-940173-45-4	48,00 € 38,40 €
Guideline ATV-DVWK-M 503E	Basic Information on Investigation and Remediation of Tailings Impoundments December 2001, 57 pages, A4, ISBN 978-3-939057-48-2	29,50 € 23,60 €
Guideline DWA-M 507-1E	Levees Built Along Watercourses – Part 1: Planning, Construction and Operation April 2013, 109 pages, A4, ISBN 978-3-942964-53-1, check 2016 approved by experts This publication was jointly elaborated by Deutsches TalsperrenKomitee (DTK), the German Geotechnical Society (DGGT) and the German Association for Water, Wastewater and Waste (DWA).	76,00 € 60,80 €
Guideline DWA-M 512-1E	Sealing Systems in Hydraulic Engineering – Part 1: Earthwork Structures February 2012, 112 pages, A4, ISBN Print: 978-3-944328-46-1, ISBN E-Book: 978-3-88721-346-6, check 2016 approved by experts This publication was jointly elaborated by German Port Technology Association (HTG), the German Geotechnical Society (DGGT) and the German Association for Water, Wastewater and Waste (DWA).	85,00 € 68,00 €
Guideline DWA-M 514E	Dam Surveillance July 2011, 77 pages, A4, ISBN Print: 978-3-942964-54-8, ISBN E-Book: 978-3-88721-329-9, check 2016 approved by experts This publication was jointly elaborated by Deutsches TalsperrenKomitee (DTK), the German Geotechnical Society (DGGT) and the German Association for Water, Wastewater and Waste (DWA).	66,00 € 52,80 €
DWA Topics	Fish Protection Technologies and Downstream Fishways – Dimensioning, Design, Effectiveness, Inspection July 2005, 226 pages, 201 figures, 42 tables, A4, ISBN 978-3-937758-88-6 (also available on CD-ROM)	40,00 € 32,00 €

CD-ROM	DWA Set of Rules – English Version on CD-ROM	
	Edition April 2018 – English translations of significant publications of the DWA Set of Rules	see page 9

Industrial Wastewater/Water Reuse/ System Related Water Pollution Control

Unit price
Price for DWA-Corporate Members

DWA Topics	Treatment of Industrial Wastewater and Process Water with Membrane Processes and Membrane Bioreactor Technology November 2007, 48 pages, 16 figures, 3 tables, A4, ISBN 978-3-940173-55-3	30,00 € 24,00 €
Technical Book	Basic Process Engineering in Industrial Wastewater Treatment Legal basis, process engineering, production-integrated environmental protection August 2013, First Edition, 168 pages, 123 figures, 37 tables, softcover, A4, ISBN 978-3-95773-019-0, Bauhaus-Universitätsverlag Weimar	45,00 € 45,00 €
Technical Book	Applied Process Engineering in Industrial Wastewater Treatment Wastewater treatment in several industries November 2013, First Edition, 125 pages, 45 figures, 30 tables, softcover, A4, ISBN 978-3-95773-158-6, Bauhaus-Universitätsverlag Weimar	45,00 € 45,00 €

CD-ROM	DWA Set of Rules – English Version on CD-ROM	
	Edition April 2018 – English translations of significant publications of the DWA Set of Rules	see page 9

Vocational Training and Continuing Education

Unit price
Price for DWA-Corporate Members



Fit in Wastewater Technology? Revised Edition Januar 2016, 111 pages, A4, ISBN Print: 978-3-88721-247-6, ISBN E-Book: 978-3-88721-330-5 Also available in Russian (see page 23) and as Flashcard app, see www.brainyoo.com This new concept was specifically developed for the practical and comprehensible transfer of knowledge for the occupation of „wastewater engineering technician“. The book contains conventional multiple-choice questions plus questions related to situations for the better understanding of processes, expedition questions to apply the theory to the practical work on a wastewater treatment plant and questions for reflection which should be discussed and solved with a trainer.	29,50 € 29,50 €
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Environmental Engineering Occupations, Volume 1	Water Supply Engineering Technician Explanatory notes to and practical assistance for the (German) Vocational Training Regulations Bundesinstitut für Berufsbildung BIBB (Publisher) 1st reproduction 2008, 87 pages, A4, ISBN 978-3-7639-3736-3, W. Bertelsmann Verlag	13,50 € 13,50 €
Environmental Engineering Occupations, Volume 2	Sewage Engineering Technician Explanatory notes to and practical assistance for the (German) Vocational Training Regulations Bundesinstitut für Berufsbildung BIBB (Publisher) 1st reproduction 2008, 86 pages, A4, ISBN 978-3-7639-3729-5, W. Bertelsmann Verlag	13,50 € 13,50 €
Environmental Engineering Occupations, Volume 3	Recycling and Waste Management Technician Explanatory notes to and practical assistance for the (German) Vocational Training Regulations Bundesinstitut für Berufsbildung BIBB (Publisher) 1st reproduction 2008, 99 pages, A4, ISBN 978-3-7639-3731-8, W. Bertelsmann Verlag	13,50 € 13,50 €
Technical Book	Wastewater Engineering in Question and Answer for Trainees, Instructors and in Daily Operation Michael Aldick, Gerolf Lenz, Jörg Moosburger 2007, 388 pages, A5, ISBN 978-3-88721-897-3, F. Hirthammer in der DWA	36,00 € 36,00 €

Make it Easy to Learn – Use your Hands

Wastewater-Water-Waste-Biogas-Safety

Technical processes – in the truest sense of the word – are comprehensible with our training aids!

Specially designed **magnetic cards** show the stations of wastewater treatment, the stations of water, waste and energy, the process of biogas production or the protection of construction sites.

The eye-catching depicted cards motivate the trainees to reproduce or simulate techniques and operational arrangements on whiteboard or flip chart. It is hands-on learning and learning by trying out and thus a more successful alternative to the purely passing on of information.

Modular Wastewater Training System

Plastic case with 66 magnetic cards, 63 flashcards (according to the magnetic cards with additional information) 1 USB stick with approx. 130 questions (ppt) on wastewater engineering

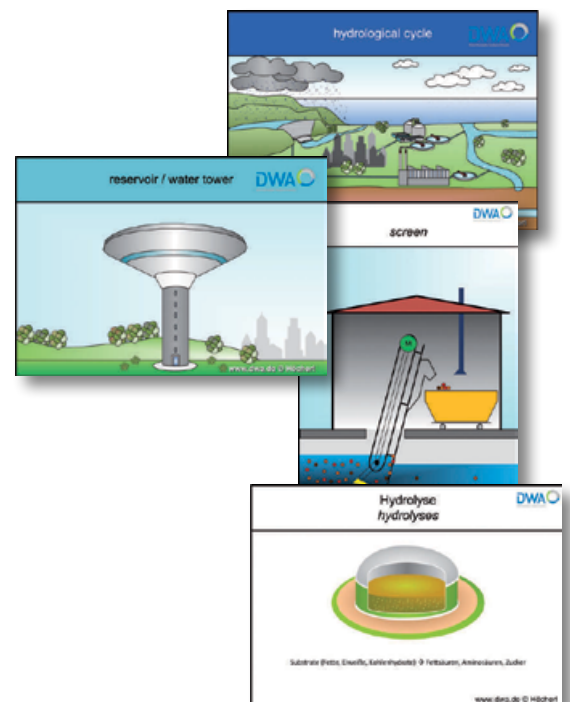
Magnetic cards, size A6 (105 x 148 mm) 438,00 €*)
available in English and Arabic

Learning cards

size A7 (74 x 105 mm), 63 flashcards cards (delivery period 4 weeks) 46,50 €*)
available in English and Arabic

Classroomset (learning cards 10 x)

+ "Fit in Wastewater Technology" (only available in English) (delivery period 4 weeks) 401,50 €*)
available in English and Arabic



Environment Training Cards

Water-Waste-Energy

Plastic case with 62 magnetic cards 128,00 €*)
Magnetic cards, size A6 (105 x 148 mm)

Biogas Training Cards

Plastic case with 84 round magnets with 14 different illustrations and 35 magnetic cards A6 (105 x 148 mm) 210,00 €*)
labelled in German/English.

Road Site Safety Training Cards

Plastic case with 106 magnets (about 50 mm) like car, signs, traffic cones, ... 128,00 €*)

All prices incl. VAT plus shipping costs. Subject to price changes and errors. *) 20 % discount for corporate DWA members



Economics and Law

		Unit price Price for DWA-Corporate Members
Standard DWA-A 133E	Valuation of Wastewater Systems – Systematic Recording, Assessment and Updating August 2005, 36 pages, A4, ISBN 978-3-940173-60-7	39,00 € 31,20 €
Standard DWA-A 400E	Principles for the Preparation of DWA Rules and Standards January 2008, 10 pages, A4, ISBN 978-3-942964-52-4	12,00 € 9,60 €
Guideline DWA-M 803E	Cost Structures in Wastewater Engineering November 2006, 71 pages, A4, with CD-ROM „Service-Tool“, ISBN 978-3-941089-74-7	80,00 € 64,00 €
Guideline DWA-M 804E	Assurance of the Quality and Economic Efficiency of Wastewater and Waste Facilities also with the Performance of Tasks by Third Parties October 2007, 54 pages, A4, ISBN 978-3-941897-21-2	48,00 € 38,40 €
Guideline ATV-DVWK-M 807E	Allocation of Production Costs and Maintenance Expenditure for Sewage Plants July 2002, 8 pages, A4, ISBN 978-3-941089-73-0	16,50 € 13,20 €
Guideline DWA-M 1100E	Benchmarking in Water Supply and Wastewater Disposal March 2008, 19 pages, A4, ISBN 978-3-941897-20-5, also available in Serbian  , see from page 24	29,50 € 23,60 €
DWA Topics	Corporate Benchmarking – Metric Benchmarking as Component of the Modernisation Strategy – Performance Indicators and Evaluation Principles April 2008, 72 pages, A4, ISBN 978-3-941089-33-4, only available for download	25,00 € 20,00 €
Cost Manual	Dynamic Cost Comparison Calculations for selecting least-cost projects in Water Supply and Wastewater Disposal – DCCC-Appraisal Manual for Project Designers December 2011, 133 pages, A4, ISBN 978-3-941897-05-2	58,00 € 46,40 €
Profile	Profile of the German Water Sector 2015 2015, 84 pages, A4, ISBN 978-3-89554-211-4 published together with ATT, BDEW, DBVW, DVGW, DWA, VKU	31,89 € 24,90 €

CD-ROM	DWA Set of Rules – English Version on CD-ROM	
	Edition April 2018 – English translations of significant publications of the DWA Set of Rules	see page 9

Public Relations



Caution, a pump killer!

The wet wipe problem

Flyer, 2015, 4-colored

Wet wipes clog pipes and canals. Restoring the water flow costs money and is labour intensive. It does not have to be this way. The flyer points to the problem of wet wipes and give tips for optimal handling of it.

You can purchase your copies of the flyer also with an individual address and logo imprint (b/w or 4c Euro scale). Please ask us about the conditions (info@dwa.de).

The prices are not transferred to your order confirmation when ordering via the DWA-Shop.

Please order larger numbers by e-mail to info@dwa.de.

net price:

per piece

0,25/pce

from 100 pieces

0,20/pce

from 250 pieces

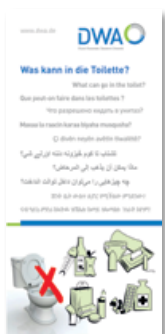
0,15/pce

from 500 pieces

0,10/pce

from 1.000 pieces

on enquiry



What can go in the toilet?

Flyer, 2016, 4-colored, 12 pages

This flyer gives a compact and comprehensible description of what belongs in the toilet or in the waste bin and which waste products must be disposed of separately. The flyer includes the following languages:

German – Amharic – Arabic – English – Farsi – French – Kurdish – Pashto – Russian – Somali – Tigrinya

net price:

per piece

0,30/pce

from 100 pieces

0,25/pce

from 250 pieces

0,20/pce

from 500 pieces

0,15/pce

from 1.000 pieces

on enquiry



Correct waste disposal – Toilet or waste container?

2,50 €

Poster, A3

This poster illustrates in easily understandable drawings what belongs in the waste container and must not be disposed of in the toilet.

Brochure

Plain talking Water: facts and figures

New



1st edition 2018, 22 pages, 20 x 20 cm

1,50 €

No other substance is as diverse and at the same time as important for the survival of the entire natural world. In this brochure you will find a great deal of interesting information about this precious commodity. What it does in people, how it determines life and economy and why we should take good care of it. Enriched with many facts and figures that illustrate its importance in all areas.

Brochure

Plain talking Do we need New Alternative Sanitation Systems?

1,50 €

1st edition 2010, 16 pages, 20 x 20 cm

Brochure

Plain talking Wastewater concerns everyone: Origin, discharge and treatment

New

2nd edition 2018, 21 pages, 20 x 20 cm

1,50 €

This brochure describes the processes of wastewater generation, its discharge and what efforts are used to treat it. You will also find numerous suggestions on how you can actively contribute to water protection and where you can obtain relevant information on the topic.

Brochure

Trulli the little water drop

3rd edition 2016, 26 pages, 12,5 x 12,5 cm, for children, age 4-10

Also available in French and Russian

1,20 €

Brochure

News from Trulli Tropf

2nd edition 2016, 32 pages, 12,5 x 12,5 cm, for children, age 4-10

Also available in Russian

1,20 €

Brochure

Clara clears it up

A Trip to the Underworld

1st edition, 2006, 20 pages, 20 x 20 cm, for children, age 4-10

Brochure

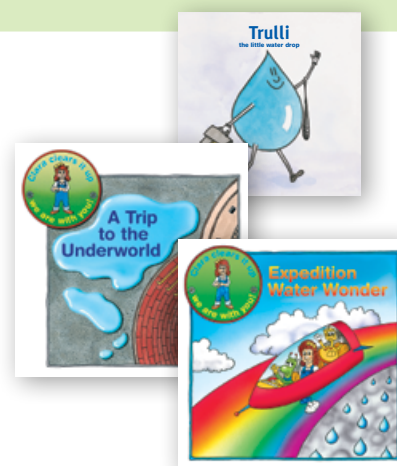
Clara clears it up

Expedition Water Wonder

1st edition, 2004, 20 pages, 20 x 20 cm, for children, age 4-10

1,50 €

0,90 €



Brochure

straight out How water becomes clean again

New



1st edition 2017, 24 pages, 20 x 20 cm, for children, age 8-12

1,50 €

Entertaining and fun illustrated short stories that help explain kids, what happens to their wastewater on its way from their home through wastewater treatment plant and eventually to the river. All stages of the process are explained on a double page. What would happen without wastewater treatment plants? What can I do for water myself?

For children in elementary school.

Poster

Everything Flows – A German Water Balance

March 2014, Size A4, folded to A4

2,50 €

Discover the Latest Publications for the Global Water Community



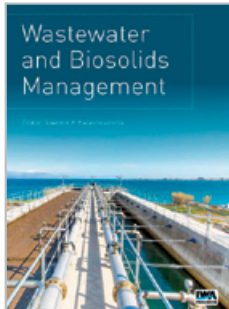
Innovative Wastewater Treatment & Resource Recovery Technologies: Impacts on Energy, Economy and Environment

Juan M. Lema & Sonia Suarez Martinez
ISBN: 9781780407869
June 2017
Price: €186.00



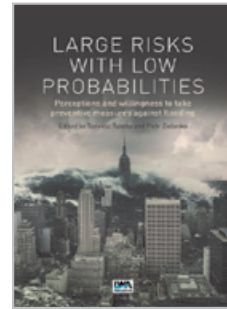
Organic Waste Recycling: Technology, Management and Sustainability - 4th edition

Chongrak Polprasert & Thammarat Koottatep
ISBN: 9781780408200
June 2017
Price: €111.00



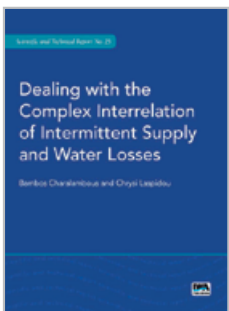
Wastewater and Biosolids Management

Ioannis K Kalavrouziotis
ISBN: 9781780408224
June 2017
Price: €106.00



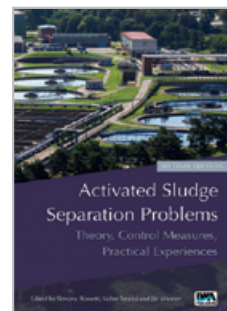
Large Risks with Low Probabilities: Perceptions and willingness to take preventive measures against flooding

Tadeusz Tyszka & Piotr Zielonka
ISBN: 9781780408590
August 2017
Price: €119.00



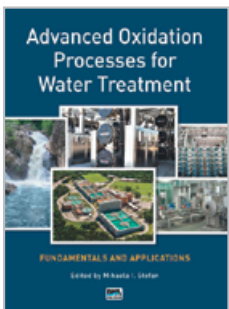
Dealing with the Complex Interrelation of Intermittent Supply and Water Losses

Bambos Charalambous & Chrysi Lapidou
ISBN: 9781780407067
August 2017
Price: €106.00



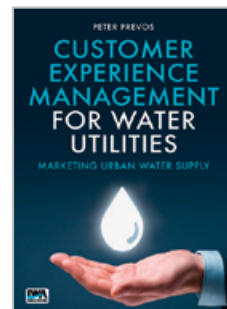
Activated Sludge Separation Problems: Theory, Control Measures, Practical Experiences – Second Edition

Simona Rossetti, Valter Tandoi & Jiri Wanner
ISBN: 9781780408637
September 2017
Price: €119.00



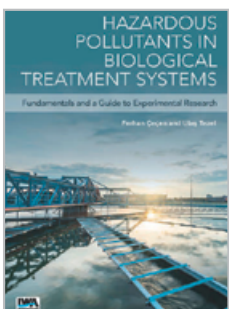
Advanced Oxidation Processes for Water Treatment: Fundamentals and Applications

Mihaela I. Stefan
ISBN: 9781780407180
September 2017
Price: €181.00



Customer Experience Management for Water Utilities: Marketing urban water supply

Peter Prevos
ISBN: 9781780408668
October 2017
Price: €81.00



Hazardous Pollutants in Biological Treatment Systems: Fundamentals and a Guide to Experimental Research

Ferhan Çeçen & Ulaş Tezel
ISBN: 9781780407708
November 2017
Price: €150.00



Wealth Creation without Pollution - Designing for Industry, Ecobusiness Parks and Industrial Estates

Brian D'Arcy, Lee-Hyung Kim & Marla Maniquiz-Redillas
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