7th International Conference on

Fracture and Damage Mechanics

9-11th September 2008

Seoul, Korea

Delegate Information Pack

http://fdm.engineeringconferences.net/

Conference Venue: COEX Convention and Exhibition Centre

www.coex.co.kr

Samseong-dong, Gangnam-gu, Seoul

Please notice this is only the Provisional Programme and the organisers may have to make some changes. Final Programme will be distributed at the time of registration.
Should any of the delegates wish to have their paper moved to from oral session to poster session or visa versa, please contact Prof. Aliabadi (m.h.aliabadi@imperial.ac.uk) as soon as possible.

1st September 2008

Travel Information

Taxi

If you take a taxi from the **Incheon International Airport**, we suggest that you take one from a designated taxi stand, and ask for a receipt. Luxury taxis are black in colour and are higher-priced than the grey-colour general taxis. Estimated charges for a taxi from Incheon to COEX are approximately 50,000 won for a general taxi and 90,000 won for a luxury taxi. The passenger will also be required to pay the road toll fee of approximately 7,000 won.

Shuttle Bus

KCAT Limousine Bus

KAL Limousine Bus

Most visitors choose to take an airport shuttle bus instead of a taxi. We recommend either the KAL Limousine Bus or the Korea City Air Terminal Limousine Bus. Both buses cost 13,000 won, and it usually takes about an hour, depending on traffic conditions.

The red KCAT Limousine Bus will bring you to the City Air Terminal at the COEX Centre.

The blue KAL Limousine Bus goes directly to many 4 and 5-star hotels throughout the city.

Note that both the COEX InterContinental and Grand InterContinental Hotels are located here at COEX. You can take these buses from the arrivals section at Incheon Airport. Employees at information desks will be happy to direct you to the appropriate departure area.

High Speed Rail

You can also take a high speed train from Incheon International Airport to Gimpo Airport. It takes roughly half an hour and costs 3,100 won. From Gimpo Aiport you can access the Seoul Subway system. For more information please see Airport Express:
http://www.arex.or.kr/jsp/eng/main.jsp

Gimpo Airport http://gimpo.airport.co.kr/eng/index.jsp

There are General Buses running from Gimpo Airport to COEX (Samseong Station). The estimated travel time is about 60 minutes, and the fare is 2,500 won. Take bus #600. You can also take the Subway from Gimpo Airport. Ride line #5 to Yeongdeungpo-gu Office and transfer to line #2, to Samseong Station. It should take approximately 65 minutes, and the fare is 1,400 won. For more subway information please see Seoul Metro:
http://www.seoulmetro.co.kr/eng/index.jsp

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There is a bus service for FDM delegates from the Ramada Hotel to the Conference Venue. The schedule is as follows:

8:30am : Ramada Hotel --> COEX

17:30pm : COEX --> Ramada Hotel

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International Conference on Fracture and Damage Mechanics VII
9-11 September 2008, Seoul, Korea

Conference Organizing Committee

M. H. Aliabadi, Department of Aeronautics, Imperial College, London, UK

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I.S. Yoon, Dept. of Civil Engineering, Induk Institute of Technology, Seoul, Korea

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Instructions for Speakers

Speakers Guidelines

Each session will be allocated a Chairperson responsible for introducing the speaker, controlling the timing of the sessions and facilitating questions.

Prior to the Conference

Please ensure that you check the conference program carefully to confirm your presentation day and time.

Ensure overhead projections / power point slides contain minimal information and are in print large enough to read from all parts of the room. Body text should be at least 26 points, in a clear font with a background, which contrasts with the print. Avoid highly patterned backgrounds or overcrowding of charts or photographs.

Prior to your Presentation

Few minutes prior to your session commencing, we ask that you proceed to your allocated room to meet with your session Chairperson.

Audio Visual Setup

There will be a PC and Beamer in each room with Microsoft Powerpoint and Adobe Acorabat Reader. On the desktop, folders are created for each session (i.e. Session 1, …Session 7 etc.). Please copy your file on to the appropriate folder on the desktop.
Delegates requiring an Overhead Project are requested to advise the conference organisers prior to the conference. There will not be slide projector available at the meeting.

During Your Presentation

Presentations are limited to 20 minutes (which allows for 5 minutes for questions and answers). If your presentation exceeds the time limit you will be asked to stop because this will disrupt scheduling and encroach on the next speakers time slot (please be considerate).

Session Chairperson Guidelines

The Chairperson's role on the day is to:

- Meet each speaker in the room that you will be chairing 10 minutes prior to your session commencing.
- Introduce yourself to each speaker
- Keep a 'keen eye' on the agenda's timing and to keep the conference flowing and on schedule. **If a speaker is missing, please move on to the next paper.** In this case you may like to allocate more time for questions.
- Thank each speaker at the conclusion of their speech.

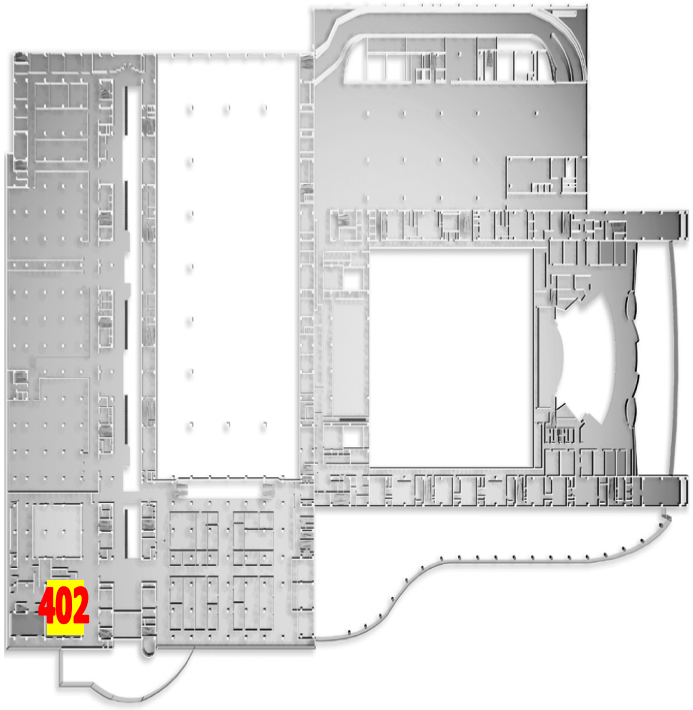
Invite questions to the speaker/s at the conclusion of their presentations (when time allows) and encourage discussion between audience and speaker/s. When

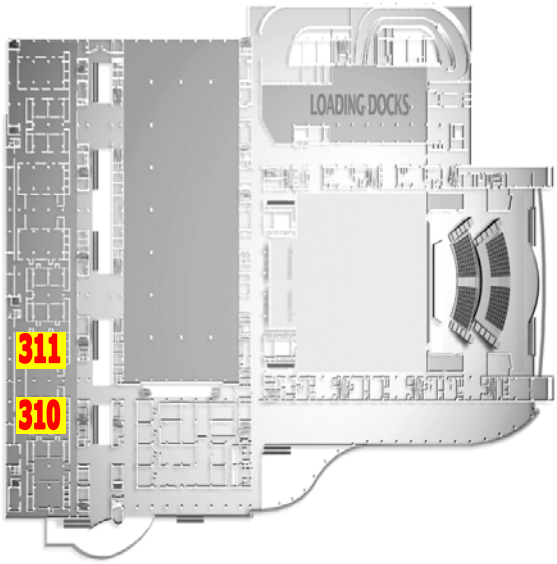
necessary the Chairperson may exercise the 'Chairperson's prerogative' to ask questions.

Posters

Delegates are asked to prepare A1 size posters to attach to walls provided.

Location of Conference Halls





Conference Programme

Day 1: 9th September (Conference Hall 402)

9.00	Registration
9.50	Welcome by Prof. S.W. Shin
10.00	Break
	Plenary Session Chairman: Alexander Korsunsky, University of Oxford, UK
10.20	**Keynote:** Prof. E. Schlangen "*Crack Development in Concrete*" (paper no:150-151)
11.00	**Keynote**: Prof. S.W. Shin "*Sustainable Super Tall Building and Engineering Role*"
11.30	Paper: 636
11.50	Paper: 461
12.10	Paper: 466
12.30	Lunch (conference centre 311)

Conference Halls (310a,b,c)

	Session A1: Computational Methods and Theoretical Aspects **Chair: F.G.Buchholz**	Session B1: Experimental Techniques and Measurments **Chair: P.E.Flewitt**	Session C1: Processes and Mechanisms **Chair: H.Hadaviani**	Session D1: Poster
14.00	194	374	467	SEE LIST OF PAPERS
14.20	325	661	107	
14.40	607	667	170	
15.00	656	598	152	
15.20	Break			
	Session A2: Computational Methods and Theoretical Aspects **Chair: A. Shimamoto**	Session B2: Experimental Techniques and Measurements **Chair: Qinfen Li**	Session C2: Processes and Mechanisms **Chair: B. Abersek**	Session D2: Poster
15.50	203	615	189	SEE LIST OF PAPERS
16.10	672	612	372	
16.30	645	532	326	
16.50	301	431	197	
End of Day 1				

Day 2: 10th September (Conference Halls 310a,b,c and 311a,b,c)

	Session A3 Computational Methods and Theoretical Aspects **Chair: P. Horst**	Session B3: Experimental Techniques and Measurements **Chair: L. Marsavina**	Session C3 Sustainable technology of structures **Chair: S.Y. Noh**	Session D3: Processes and Mechanisms **Chair: N. Constantin**	Session **E1: Poster**
9.00	681	452	199	659	SEE LIST OF PAPERS
9.20	414	513	525	600	
9.40	673	526	512	619	
10.00	675	519	tba	tba	
10.20	Break				
	Session A4 Computational Methods and Theoretical Aspects **Chair: C. Providakis**	Session B4: Experimental Techniques and Measurements **Chair:**	Session C4 Sustainable technology of structures **Chair: K.B. Park**	Session D4: Processes and Mechanisms **Chair: J.Rezaeepazhand**	Session E2: Poster
10.50	176	521	515	550	SEE LIST OF PAPERS
11.10	421	329	564	184	
11.30	603	507	570	304	
11.50	475	356	492	648	
12.10	494	602	tba	149	
12.30	Lunch (conference centre 402)				
	Session A5 Computational Methods and Theoretical Aspects **Chair:H.Hossieni-Toudeshky**	Session B5: Experimental Techniques and Measurements **Chair: Jeongguk Kim**	Session C5 Sustainable technology of structures **Chair: T.S.Kim**	Session D5: Stress and Failure Analysis **Chair: P. Agrianidis**	Session E3: Poster
14.00	496	509	533	331	SEE LIST OF PAPERS
14.20	498	185	534	663	
14.40	566	206	567	674	
15.00	584	321	172	462	
15.20	Break				
	Session A6 Computational Methods and Theoretical Aspects **Chair: L. Nahlik**	Session B6: Fatigue **Chair: C.David**	Session C6 Damage Evaluation **Chair: E. Schlangen**	Session D6: Stress and Failure Analysis **Chair: A. Goksenli**	Session E4: Poster
15.50	586	527	514	423	SEE LIST OF PAPERS
16.10	638	628	563	511	
16.30	627	646	565	368	
16.50	tba	tba	407	109	
End of Day 2					

19.30 Gala Dinner will be held in COEX InterContinental. There will also be short entertainment. (There is small number of places left for the conference dinner, if you have not registered for the dinner and would like to attend please contact the organizers immediately).

Day 3: 11 September (Conference Halls 310a,b,c and 311a,b,c)

	Session A7 Computational Methods and Theoretical Aspects **Chair: P.Baiz**	Session B7: Structural Integrity and Durability **Chair: C.S.Choi**	Session C7: Fatigue **Chair: A. Belsak**	Session D7: Concrete Materials **Chair: H.S.Lee S.W. Jung**	Session E5: Poster session
9.00	655	113	118	520	SEE LIST OF PAPERS
9.20	501	546	451	518	
9.40	490	195	196	640	
10.00	535	303	tba	510	
10.20	Break				
	Session A8 Computational Methods and Theoretical Aspects **Chair: M Peternec**	Session B8: Structural Integrity and Durability **Chair: S.W.Han**	Session C8: Fatigue **Chair: J. Hornikova**	Session D8: Concrete Materials **Chair: J.W. Kyung**	Session E6: Poster session
10.50	621	375	147	662	SEE LIST OF PAPERS
11.10	679	393	660	402	
11.30	620	450	465	370	
11.50	502	190	493	641	
12.10	tba	110	480	517	
12.30	Lunch (conference centre 403) End of the conference – have a safe journey back				

PAPER NO	ESSION	TITLE -AUTHORS
103	D1	A Study of the Dynamic Plane Strain Fracture Toughness of Concrete by SHPB J. Qu and G.P. Zou
107	C1	About the Effects of Residual Stress States Coming from Manufacturing Processes on the Behaviour of Riveted Joints F. Caputo, G. Lamanna and A. Soprano
109	D6	Failure Analysis of Diesel Engine Intake Valve A. Göksenli and B. Eryürek
110	B8	An Analysis of Aging Characteristics of Tilting Train under Accelerated Aging Environment P. Nam, S.H. Yoon, Y.E. Hwang, H. Li and Q.F. Li
113	B7	Analysis for Mechanical Properties of Spiral Accumulating Core Used for Permanent Magnet Motor N.A. Noda, B. Zhang, K. Yonemaru, S. Higo and Y. Takamatu
114	E3	Test Analysis for RC Beams Strengthened with Externally Bonded Prestressed CFRP Laminates S.Q. Cui, J.S. Wang, Z.Z. Pei and Z. Liu
115	E1	Analysis of Critical Damage of Thin Plate Subjected to Contact Explosions S. Wang, J. Zhang and X.H. Shi
118	C7	Assessment of Extrinsic Crack Tip Shielding in Austenitic Steel near Fatigue Threshold J. Pokluda, Y. Kondo, K. Slámečka, P. Šandera and J. Horníková
120	E2	Cavity Dynamic Formation and Bifurcation of the Rubber-Like Sphere G.H. Wu, Y. Wang, L.Q. Tang and Y. Yang
121	E3	Cement Loop Damage Mechanism in the Process of Repairing Casing L.Q. Tang, S.Z. Sun, C.C. Wu and X.M. Yu
143	E2	Computational Program for Non-Equilibrium Grain Boundary Segregation Kinetics J. Wang, Q.F. Li and E.B. Liu
147	C8	Contact Fatigue Behaviour of PVD-Coated Spur Gears S. Baragetti, A. Terranova and F. Tordini
148	D1	The Rationale of Adhesive Postinstalled Method to Estimate the Concrete Strength S.Q. Cui, J.S. Wang, X.W. Kong and H.W. Li
149	D4	Corrosion Behavior and Mechanism of a Cu-Ni Alloy in Marine Environment Q.F. Li, C.H. Li and Y.J. Qiao
150	P1	Crack Development in Concrete, Part 1: Fracture Experiments and CT-Scan Observations E. Schlangen
151	P1	Crack Development in Concrete, Part 2: Modelling of Fracture Process E. Schlangen
152	C1	Crack Spacing and the Flow Stress in NiTi Thin Films Deposited on Cu Substrate Y.H. Li, F.L. Meng, C.S. Liu and Y.M. Wang
153	E2	Crack Width of SRC Members Based on Fracture Mechanics B. Wang, S.S. Zheng, M.Z. Wu, L. Li and L. Zeng
170	C1	Cracking Cohesive Law Thermodynamically Equivalent to a Non-Local Damage Model F. Cazes, A. Simatos, M. Coret, A. Combescure and A. Gravouil
172	C5	Crushing Behaviour of CFRP Composite Structure H. Ghasemnejad, H. Hadavinia and E. Lewis
173	E1	Damage Analysis of the SRHSHPC Frame Columns under Low Cyclic Reversed Horizontal Loading S.S. Zheng, L. Zhang, B. Wang, L. Li and L. Zeng
176	A4	Damage Evolution of Laminated Composites Using Continuum Damage Mechanics Incorporate with Interface Element B. Mohammadi, H. Hosseini-Toudeshky and M.H. Sadr-Lahidjani
177	E3	Damage Identification of Mechanical System with Artificial Neural Networks L.J. Cao, S.J. Li and Z.C. Shangguan
178	E2	Dynamic Anti-Plane Behaviors of a Semi-Infinite Piezoelectric Medium with a Circular Cavity and a Crack near the Surface T.S. Song, D. Li, X.W. Wang and S.L. Dong
182	E2	Dynamic Growing Crack Tip Field in Visco-Elastic Compressible Material Y. Yang, L.Q. Tang, Y. Wang and C. Feng

183	E4	Dynamic Stress Intensity Problem of SH-Wave by Double Linear Cracks near a Circular Hole L. Li, H. Li and Y. Yang
184	D4	Dynamic Tensile Properties of TiCp/Ti Composite F. Jiang, D. Zhao and J.G. Ning
185	B5	Effect of Humidity on Fatigue Strength of Squeeze Cast Al Alloy Y. Sofuku, N. Kawagoishi, M. Adachi, K. Okutani and Y. Maeda
186	E4	Effect of Supporting Conditions on the Fatigue Life of Shaft Based on Product Lifecycle Management Y.T. Li, P. Ma and M. Song
189	C2	Effects of Microstructure and Humidity on Fatigue Strength of Maraging Steel M. Miyazono, N. Kawagoishi, Q.Y. Wang, E. Kondo and T. Nagano
190	B8	Effects of Rim and Web Thickness on Gear Tooth Root, Rim and Web Stresses G. Marunić
192	E4	Electrochemical Behavior of Cu-Bearing CrMo Steel in H_2S **Saturated Aqueous Brine Solution** Q.C. Tian, X.M. Dong and Q.A. Zhang
194	A1	Numerical Investigation of Stress Singularities in Cracked Bimaterial Body L. Náhlík, L. Šestáková and P. Hutař
195	B7	Evaluation of Perforation Resistance of Magnesium Alloy by Hypervelocity Impact R. Kubota, A. Shimamoto, D. Numata and K. Takayama
196	C7	Fatigue Resistance Assessment of Slurry Coating Steel Substrate Compounds under Cyclic Loading K.G. Anthymidis, C. David and D.N. Tsipas
197	C2	Excavation Damage in Unsaturated Porous Media C. Arson and B. Gatmiri
199	C3	Experimental Investigations on the Effects of Thermal Residual Stresses on the Efficiency of Repaired Panels with Glass/Epoxy Composite Patch H. Hosseini-Toudeshky, M. Shamboli and B. Mohammadi
201	E4	Experimental Study on Seismic Damage Model of the SRHSHPC Composite Frame Columns S.S. Zheng, L. Zhang, L. Li, B. Wang and M. Xie
202	E4	Experimental Study on the Shear Behaviors of the SRHSHPC Composite Frame Columns L. Zhang, S.S. Zheng, Q.N. Li, L. Li and B. Wang
203	A2	Numerical Characterization and Validation of Vehicle Collisions A. Grimaldi, A. Soprano and F. Caputo
204	D1	Far Field Solution of SH-Wave Scattered by a Circular Cavity and a Mode III Crack in Half Space B.T. Sun, P.L. Yan and Z.L. Yang
206	B5	Fatigue Strength of Maraging Steel at Elevated Temperatures T. Iwamoto, N. Kawagoishi, N. Yan, E. Kondo and K. Morino
207	D1	Fatigue-Cumulative Damage Model of RC Crane Girders Strengthened with FRP Strips S.S. Zheng, B. Wang, L. Li, L. Zhang and P.J. Hou
301	A2	FEM Analysis for Sealing Performance of Hydraulic Pressure Brake Hose Caulking Portion H. Kawahara, S. Yoshimura and N.A. Noda
303	B7	Fitness-For-Service Assessment of the Pipelines with Localized Geometric Imperfections such as Buckles and Wrinkles Z.M. Yang, S.B. Kumar and J.P. Tronskar
304	D4	Fracture Behavior and Microstructure of Ti $_3AlC_2$ **Ceramics Prepared by SHS/PHIP Method** Z.Y. Ren, C. Li and Q.F. Li
306		Theoretical Approach to Calculate Surface Chloride Content C_s **of Submerged Concrete under Sea Water Laden Environment** I.S. Yoon

320	A8	Generalized Stress Intensity Factors for Wedge-Shaped Defect in Human Tooth after Restored with Composite Resins K.YAMAGUCHI, Nao-Aki NODA, Ker-Kong Chen, Kiyoshi TAJIMA, and Seiji HARADA
321	B5	High Cycle Fatigue Properties and Failure Mode in Ni-Cr-Mo Steel Tempered at Low Temperature Y. Mochizuki, M. Nakajima and T. Shimizu
324	E1	Inference Engine and Explanation Mechanism in the Expert System of Fracture Mechanics Analysis for Component Design S.F. Zhu, Q.F. Li and Z.H. Yu
325	A1	Influence of Anisotropic Properties Upon Stress Intensity Factors under Biaxial Stress A. Shimamoto, H. Ohkawara and J.H. Nam
326	C2	Influence of Grain Size on Notch Sensitivities in Fatigue of Carbon Steel T. Kanemaru, N. Kawagoishi, E. Kondo, Q.Y. Wang and Y. Ohzono
328	E1	Investigation into Damage of Aluminum Multi-Wall Shield under Hypervelocity Projectiles Impact G.S. Guan, B.J. Pang, R.Q. Chi and N.G. Cui
329	B4	Application of Instrumented Indentation Technique to Evaluate Residual Stress and Stress Directionality M.J. Choi, I.G. Kang, K.H. Kim and D.I. Kwon
331	D5	Failure of Polyurethane Foams under Different Loading Conditions L. Marsavina, T. Sadowski, D.M. Constantinescu and R. Negru
332	E5	Low-Cycle Fatigue Life Prediction by a New Critical-Plane Method D. Jin, J.H. Wu and Y. Zhang
333	E5	Mechanical Behaviors of Torsion Actuator of Shape Memory Alloy B. Zhou, Z.Q. Wang, S.H. Yoon and G.P. Zou
334	E4	A New Method to Calculate Dynamic Stress Intensity Factor for V-Notch in a Bi-Material Plate Y.T. Li, Z.Y. Rui and C.F. Yan
350	E2	Micromechanics Method to Evaluate Fatigue Life of Ni-Based Superalloys during Morphological Evolution W.P. Wu, Y.F. Guo and Y.S. Wang
351	E2	Effect of Recessing Length in Adhesive Layer on the Cleavage Joints M. You, Z. Li, X.L. Zheng and Z.M. Yan
354	E1	Non-Linear Step-by-Step Seismic Response and the Push-Over Analysis Comparison of a Reinforced Concrete of Ductile Frames 15 Level Building J.A. Ávila and E. Martínez
356	B4	Nondestructive Estimation of Fracture Toughness Using Instrumented Indentation Technique K.W. Lee, H.U. Kim, S.W. Park, J.S. Lee, K.H. Kim and D.I. Kwon
368	D6	Numerical Simulation and Experimental Investigation of the Failure of a Gas Turbine Compressor Blade N. Nourbakshnia, S. Ziaei-Rad, A. Kermanpur and H. Sepehri Amin
370	D8	Numerical Simulation on Mixed Mode I-II Crack Propagation Process in Concrete Q. Xu, W. Dong and Z.M. Wu
371	B9	On the Evaluation of the Service Life of Shaft-Bushing Tribosystems at Low Speed A. Calabrese, P. Morelli, A. Morri, G. Sambogna and F. Tarterini
372	C2	On the Tensile and Compressive Fatigue Behaviour of Notched CFRP Laminates G. Minak and P. Morelli
374	B1	On the Growth, the Arrest and the Restart of a Crack during a Dynamic Brittle Fracture Experiment D. Grégoire, H. Maigre and A. Combescure
375	B8	Optimum Dimensions of Thin Walled Tube on the Mechanical Performance of Super Stud Bolt Y. Xiao, M. Kuhara, N.A. Noda, K. Saito, M. Nagawa, A. Yumoto and A. Ogasawara

390	E1	Postbuckling Analysis of Laminate with Delamination Based on the Improved Damage Model of 2-D G. Yang, A.F. Zhang, H.B. Wang and P. Niu
392	E5	Reliability Analysis of Structure System Considering Failure Modes of Strength, Fatigue and Buckling W.G. An, H. An and Y.Y. Zhang
393	B8	Reliability-Based Structural Optimization of Stochastic Structure Systems Considering Stability X.C. Yan
394	E6	Research on Performance of Reduced Web Connections in Steel Frame Y.S. Shao, L. Jin, H.B. Liu and L.L. Xie
396	D1	Risk-Based Research on Failure Mode of High-Arch Concrete Dam Z.T. Chen
398	E4	Scattering of SH-Waves and Dynamic Stress Intensity Factor by an Interacting Mode III Crack and a Lining Structure in Half Space Z.L. Yang, M.J. Xu and B.T. Sun
399		Simple Approach for Computing Chloride Diffusivity of (Non)Carbonated Concrete I.S. Yoon
401	E4	Statistical Analysis for Fatigue Life of Concrete D.F. Zhao, W.W. Kong and X.R. Song
402	D8	Studies on Expansion Properties in Concrete Containing Waste Glass, Silica Fume, Rice Husk Ash and Polypropylene Fibers A. Sadrmomtazi, O. Alidoust and A.K. Haghi
404	E3	On Fracture Mechanics Testing Technique Based on Compliance of Specimens L.X. Cai, L. Jin and C. Bao
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