1973年6月号/VOL58-7/目次 ©編集兼発行者 社団法人土木学会/160東京都新宿区四谷1丁目

口絵写真	新しい情報を伝えるアーツ写真(一部カラー)				
論說	環境科学研究機関の設立を望む小川博三	1			
報告	地球資源衛星(アーツ)計画の概要丸安隆和	2			
	東京都市圏物資流動調査の中間報告推名彪・黒川洸	8			
	鋼管継手の格点強度の評価方法奥村敏恵・村上永一・秋山成興	14			
	総合技術開発プロジェクトの概要北野章・倉島収	23			
	紅葉山線鬼峠トンネルの施工				
	蛇絞岩による破砕帯との戦い・・・岩田伸雄・飯田芳信・谷健史	30			
	都市交通改善の方策――西ドイツからの報告――・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	38			
委員会報告	(1) 大学土木教育に関するアンケート調査報告				
		42			
	(2) 大学土木教育によせて				
	河野康雄・増岡康治・椎貝博美・崎山正常	50			
話のひろば	土木技術者の海外案内/その 6				
	近くて遠い南の大陸――スノウィマウンティンズ計画などにみる				
	オーストラリアの土木事情――――城崎陸郎・片山恒雄	57			
寄書	近年の資源論によせて	65			
講座	数值解析法講座 18/応用編				
	数値計算上の問題点(I)差分スキームの安定法野木達夫	69			

● 今月の表紙/日本石油喜入原油貯蔵基地にて建設中の4号原油取扱い棧橋.接岸可能最大船型50万D/Wt.バース水深33m

工における工程計画管理最適化問題の定

土木学会誌内容紹介前付(1)
論文報告集内容紹介前付(5)
◎有限要素法によるPC格納容器の粘弾性解析・赤木知之・大野大明・色部誠◎中立応力低下による海底地盤の改良・佐々木伸・笠島志朗・阿久根省三◎穴あけベンケルマンビーム試験による舗装構造の解析・植下協・吉兼亨・玉野富雄◎鉄
道トンネル内路盤コンクリートの設計について・西頭常彦 ◎ Elastic Surface Method による宅地造成設計の最適化・村井俊治◎住区内の歩行者交通発生量の推計方法について・竹内伝史◎機械化土

式化・庄子幹雄・荒井克彦◎アーチ	の面
外性状について(英文)矢吹哲哉・	倉西
茂◎	
図書館だより	55
書評	
水工水理学林泰造・	評 69
文献抄録8	1~86
◎小振幅の応力変動をうけるワイヤ	ーケ
ーブルの疲労強度◎コンクリート構	造物
におけるひびわれの防止◎高速道路	騒音
と住宅◎表面波の非線型干渉による	内部
波の共振励起◎	

~ · · · ~ II _	-トピックス		87
	- トピックス		OI.
ニュース・		⋯⋯88~	
◎新関門ト	ンネル海底部貫	通◎国土総	合
開発法およ	び国土総合開発	行設置法提	案
さる◎東北	新幹線第2有壁	トンネルで	幾
械化掘削方	式を採用◎昭和	1 48 年・寿	の
叙勲きまる(. , ,	
文献目録	• • • • • • • • • • • • • • • • • • • •		93
会 告			13
国際会議二			25
学会記事	—————————————————————————————————————		.26
編集後記	····	[…'奎]	28
PR/欄目》	<-?N0:	**************************************	末 🔪
1.7		<u> </u>	<i>\</i> 1
*	48, 7,	_	1
1 1	40, 1,	-3) * l
1 🔊		Ū	/ 1
	<i>></i>	/3	~ /
T.	T ## 10=	712 JK ()	デン
*	逐步	開光之	

NASA started ERTS Project. A number of photographs obtained by the project provide various informations for us by the cooperation of specialists in each field.

In this article some examples of informations are described interestingly from a viewpoint of civil engineering field in addition to the principle of the photographs of ERTS.

SURVEYING OF GOODS SUPPLY IN METROPOLITAN AREA

.....T. Shiina and T. Kurokawa (pp. 8~13)

A long-range policy based policy based on the comprehension of traffic demand is urgently required in the world to solve the traffic congestion resulting from the concentration of population in cities.

This article reports a surveying of goods supply in the metropolitan area, its background and purposes, surveying system and method, and its tabulation and analysis.

ESTIMATION FOR STRENGTH OF PIPE JOINT

.....T. Okumura, E. Murakami and N. Akiyama (pp. 14~22)

A way of estimation for the strength of pipe joint is proposed in connection with an experimental study on the off-shore frame works to construct the Honshu-Shikoku Connection Bridge. The experiments for ultimate strength and low-cycle fatigue were carried out with various fundamental types of joints. An experimental formula for the yield strength of various joints were proposed on the basis of mechanical properties of joints. OUTLINE OF COMPREHENSIVE TECHNICAL DEVELOPMENT PROJECT

......A. Kitano and O. Kurashima (pp. 23~29)

This article describes the outline of a comprehensive technical development project established by Ministry of Construction as technical development budget for the fiscal year 1972-73. It introduces the contents of the projects, "Development of New Earthquake-Proof Design Method", "Development of Techniques for Construction of Off-Shore Structures", "Development of New Road Traffic system" and "Development of Total Evaluation of Housing Efficiency".

CONSTRUCTION OF THE ONI-TOGE TUNNEL IN THE MOMIJIYAMA LINE

.....Y. Iwata, Y. Iida and T. Tani (pp. 30~37)

The Ishikatsu line, which is now being constructed by the Japan Railway Construction Corporation, is the new line with 110 km long and also the shortest line connecting between the central and east parts of Hokkaido.

The Momijiyama line, a part of the Ishikatsu line, crosses the Kamuikotan Structural Zone which is one of the largest serpentine zone in Japan along the Hidaka Mountains. The Oni-Toge Tunnel which belongs to the Kamuikotan Structural Zone suffers heavy earth pressure over 480 m crushed zone.

POLICY FOR IMPROVEMENT OF TRAFFIC IN CITIES.......Hans Georg Retzko (pp. 38~41)

Traffic in cities is a common serious problem in the world. In every large city, it is forced to select either the construction of traffic facilities or the restraint of traffic demand.

In this article, the traffic situation of West Germany is reported by Prof. Dr.-Ing. Hans Georg Retzko who is acquainted with the traffic problems in Japan.

OTHER CONTENTS

Expectation for Establishment of Laboratory on Environmental Science (H. Ogawa)/Analysis of Survey on University Civil Engineering Course and Advice for It (Studying Committee on University Engineering Course)/Recent Problems on Natural Resources (A. Watanabe)/Foreign Guide for Civil Engineers, No. 6, "Construction Works in Australia, Snowy Mountains Scheme" (R. Jozaki and T. Katayama)/Lecture on Numerical Analysis, No. 18, Problem in Numerical Calculation (II) "Stability in Differencial Scheme" (T. Nogi).