

中国建筑学会工程勘察学术委员会
第二届工程勘察学术交流会议
论文选集

《第二届工程勘察学术交流会议论文选集》编辑委员会

中国建筑工业出版社

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本书收集了会议上宣读的94篇论文,其中工程地质与岩土工程方面的36篇(包括环境工程地质与工程地质编图8篇;岩土工程性质、勘察评价及工程实例10篇;原位测试技术10篇;地基加固处理与监测技术7篇);水文地质及地下水资源方面的24篇(包括地下水资源评价和管理7篇;裂隙水岩溶水赋存条件与评价方法7篇;地下水污染与地下水模拟7篇;供水管井钻井技术与成井工艺3篇);工程测量方面的23篇(包括近景摄影测量8篇;竣工测量与变形观测9篇;城市与工程导线测量及航空测量6篇);工程物探方面的12篇。这些论文在一定程度上反映了近几年来我国工程勘察工作在科学研究与工程实践相结合方面的新动向与新水平。对促进学科发展,提高工程勘察的质量和水平均具有一定的参考价值。

本论文集可供从事工程建设的工程地质、岩土工程、水文地质、工程测量、工程物探工作的工程技术人员、研究人员及高等院校的有关专业师生参考。

《第二届工程勘察学术交流会议论文选集》编辑委员会

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前 言

1983年5月5日至11日, 中国建筑学会工程勘察学术委员会在江苏省南京市召开了第二届委员会暨学术交流会议, 来自全国189个单位的330名代表出席了会议, 提供会议交流的论文共287篇。根据学术委员会建议, 决定在会后选编会议论文集, 并选举和委托文集的编辑委员会, 负责选定和审阅拟列入本文集的有关论文。

这次会议论文所涉及的技术广度与深度是空前的, 会议学术交流分为13个中心议题, 每一中心题由学术委员会委请了有关同志对议题论文进行综合述评, 列于本文集中心议题的论文题首。各中心议题内容为:

1. 环境工程地质及工程地质编图;
2. 岩土工程性质、勘察评价及工程实例;
3. 原位测试技术;
4. 地基加固处理及监测技术;
5. 地下水资源评价和开采管理;
6. 裂隙水岩溶水的赋存规律和资源评价;
7. 水文地球化学、水质污染及数学模拟;
8. 供水管井钻井技术与成井工艺;
9. 近景摄影测量发展现状及其趋势;
10. 竣工测量与变形观测;
11. 城市与工程导线测量及航空测量;
12. 水文工程地质物探的发展近况;
13. 工程物探在岩土物性参数测量中的应用。

工程地质方面的会议论文反映了在岩土工程特性、地质环境及地基处理、新型原位测试等岩土工程方面的论文显著增多。许多论文探索了场地稳定、环境工程地质的发展、特殊地基土的工程性质及新型地基与测试方法的研究应用等, 显示了工程地质与岩土工程这两个技术领域的进一步结合, 也显示了岩土工程特性的评价由传统单一的物理力学性转向定量性和精确性更高的综合性评价。

水文地质方面的论文, 反映了在参数计算、资源评价及水质污染研究等的新进展, 许多文章就地下水入渗机理、包气带水运移规律、多含水层的越流与疏干给水度的理论与方法、水质污染的数学模拟及找水新技术进行了较深入的探讨, 强调水资源评价应着眼于水量、水质、生态、社会经济等的综合评价方法。

工程测量论文反映了近几年来我国在近景摄影测量技术与工业摄影测量技术(例如结构变形、工程模型与动态立体摄影、工业烟云抬升与扩散参数测量等)方面取得

注: 首届工程勘察学术委员会成立大会暨学术交流会议于1979年10月在成都举行, 由于条件的限制未能出论文集, 由《工程勘察》编辑部选择部分论文在该刊陆续发表。

的新进展；在工程建设中比较薄弱的竣工测量与变形测量的15篇论文，以及城市建设测量的18篇论文中，不少在理论上和方法上都有创新。

工程物探论文涉及的方面较广，反映了近几年在无线电波透视、垂直偶源频率测深、岩土物性参数声波测试、综合测井、工程测振、地震与电法勘探及成果解释的电子计算技术的应用等取得了新的成效，也显示了物探技术方法的研究试验在近几年来有了较大的发展。

会议交流的论文在一定程度上反映了近几年来我国工程勘察学术领域，在科学研究与工程实践相结合方面的新动向与新水平。经评委会评定本文集选收了94篇论文。其它交流的论文列入本文集书末总目中，需要指出，这些论文不少都具有独特的见解，或在理论和方法上具有一定的水平，但限于篇幅不能一一刊登，仅此表示歉意。

在文集审编出版过程中，得到了工程勘察学术委员会、建设部综合勘察院、中国建筑工业出版社和中国建筑工业出版社印刷厂等单位的多方支持，特别是编辑委员会同志对论文多次审校，使本文集得以顺利出版，一并表示衷心谢意。文集英文题名由袁有钧副译审校定。

方鸿琪 石振华

一九八三年十一月

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**Selected Papers of the Second Geotechnical Investigation
and Surveying Symposium Sponsored by the Commission of
Geotechnical Investigation and Surveying, the Architectural
Society of China**

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