

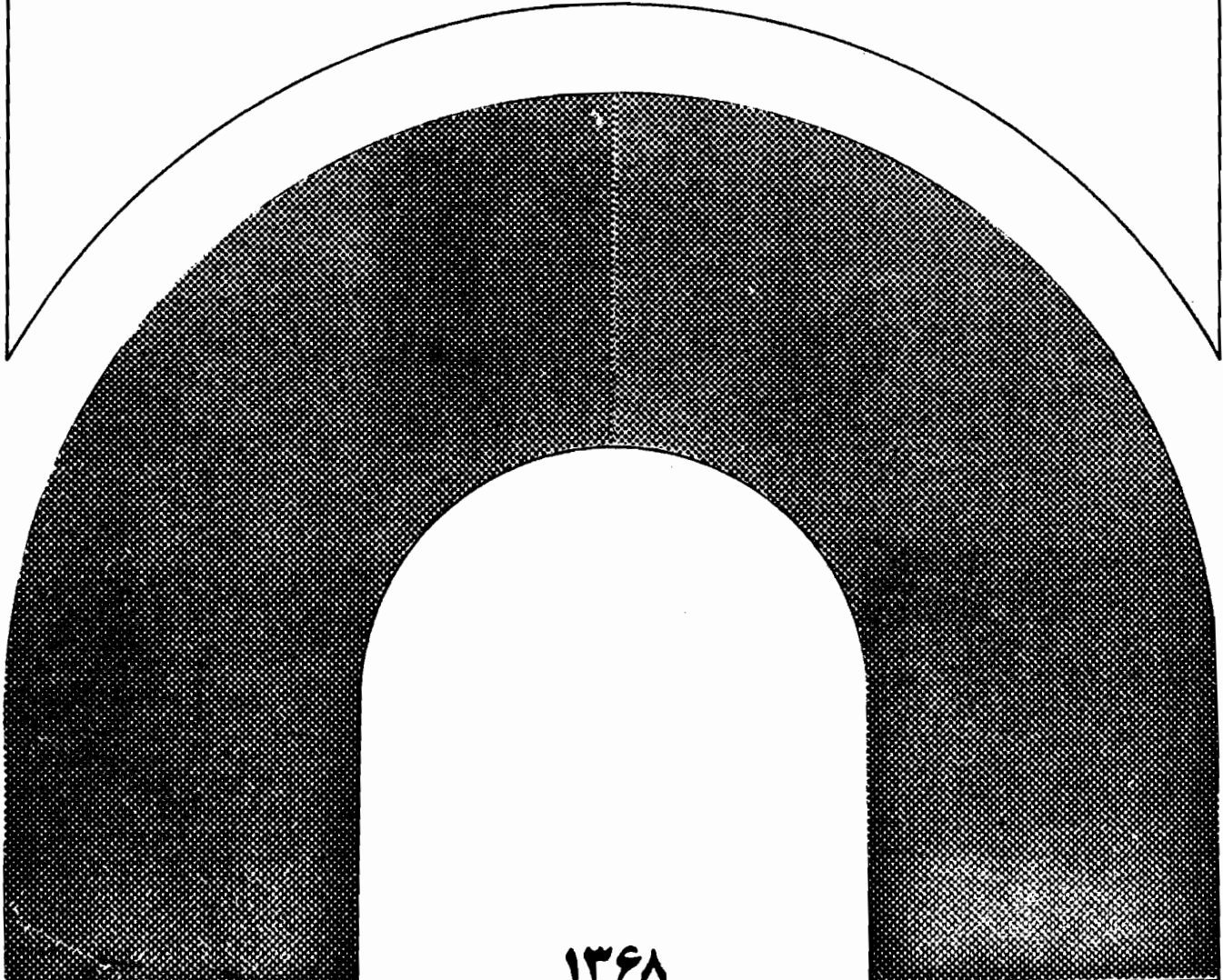


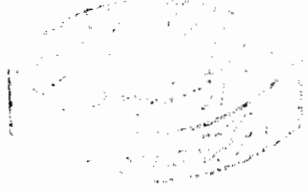
جمهوری اسلامی ایران  
وزارت برنامه و بودجه

# کتابنامه تونل و تونل سازی

نشریه شماره ۱۱۳

معاونت فنی  
دفتر تحقیقات و معیارهای فنی





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ایران . وزارت برنامه و بودجه . دفتر تحقیقات و معیارهای فنی  
کتابنامه تونل و تونل سازی / معاونت فنی ، دفتر تحقیقات و معیارهای فنی :  
[ حجت الله حسن لاریجانی و دیگران ] . تهران : وزارت برنامه و بودجه ،  
مرکز مدارک اقتصادی - اجتماعی و انتشارات ، ۱۳۶۸ .  
۳۰۶ ص . - ( انتشارات وزارت برنامه و بودجه : ۶۸/۵۵/۲۴ )  
ص . ع . به انگلیسی :

Bibliography of tunnel and tunnelling

۱ . تونلسازی - کتابشناسی . ۲ . تونلها - کتابشناسی . الف . حسن لاریجانی ،  
حجت الله . ب . ایران . وزارت برنامه و بودجه . مرکز مدارک اقتصادی - اجتماعی  
و انتشارات . ج . عنوان .



الف ۹ ت / ۵۸۵۳ Z

کتابنامه تونل و تونل سازی

تهیه کننده : دفتر تحقیقات و معیارهای فنی

ناشر : وزارت برنامه و بودجه . مرکز مدارک اقتصادی - اجتماعی و انتشارات

سخه پرداز : مهدی تفنگساز ؛ حروفچین : مریم صادقیان ؛ امورگرافیک : ملیحه الله داد

چاپ اول : ۷۰۰ نسخه ، ۱۳۶۸

بها : ۱۵۰۰ ریال

چاپ و صحافی : چاپخانه وزارت برنامه و بودجه

همه حقوق برای ناشر محفوظ است .

تکثیر تمام یا بخشی از این اثر ، به صورت حروفچینی و چاپ مجدد ، چاپ افست ، پلی کپی ، فتوکپی و  
انواع دیگر چاپ و تکثیر ، به هر منظور و به هر تعداد ، پیش از گرفتن اجازه کتبی از ناشر ، اکیدا  
ممنوع است . نقل مطالب به صورت معمول در مقاله های تحقیقاتی ، با ذکر نام کامل ناشر و نشریه ، آزاد  
است . متخلفان ، تحت پیگرد قانونی قرار خواهند گرفت .

## سپاسگزاری

دفتر تحقیقات و معیارهای فنی در کار تهیه و تنظیم کتابنامه حاضر از مساعدتهای کارساز مرکز مدارک اقتصادی - اجتماعی و انتشارات بسیار برخوردار بوده است و در اینجا فرصت را مغتنم می‌شمارد و از آقای علی میرزائی مدیر محترم این مرکز، به خاطر امکاناتی که در اختیار گذاشتند، و از آقای محمد هومن، معاون ایشان، به خاطر نظارت بر کارهای انتشاراتی این مجموعه، سپاسگزاری می‌کند.

آقای حجت‌الله حسن‌لاریجانی عهده‌دار کار تهیه، تدوین و تنظیم این کتابنامه بوده‌اند؛ طرح طبقه‌بندی و شماره‌گذاری به عهده آقای احمد تابش بوده است؛ و نیز آقایان مرتضی قاسم‌زاده و مهدی فتح‌الله نوری و خانمها فرزانه فراست، افسانه مستعدی و روح‌انگیز شکیبا کار استخراج و ثبت اطلاعات کتابشناختی را به انجام رسانیده‌اند؛ بدین وسیله از زحمات همه ایشان قدردانی می‌شود.

در پایان، از همکاران مرکز مدارک اقتصادی - اجتماعی و انتشارات خانم مریم صادقیان برای حروفچینی، آقای مهدی تفنگساز برای نسخه‌پردازی، خانم ملیحه‌الله داد برای صفحه‌آرایی و طراحی روی جلد و خانم عصمت قائم مقامی برای بازبینی نهایی مجموعه سپاسگزاری می‌شود.

دفتر تحقیقات و معیارهای فنی

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## بسم الله الرحمن الرحيم

### مقدمه

در ایران، گرچه کار تونل سازی از جهات تاریخی سابقه‌ای بس طولانی دارد، که تونل کوه‌رنگ‌از نمونه‌های بارز آن است، ولی پرداختن به آن در مقیاس پژوهشی از پدیده‌های جدیدی است که در سالهای اخیر با برگزاری سمینارهای تونل و تونل سازی و ترجمهٔ اسناد سمپوزیومهای بین‌المللی رواج یافته است.

تونل و تونل سازی ابعاد بسیار وسیعی دارد و از جمله مسائل و مباحث سازه‌های زیرزمینی است که در کار مهندسی راهسازی، مهندسی کانسارها، مهندسی شهرسازی و... نقش مهمی به عهده داشته، و تقریباً با تمام علوم زمینی و علوم محیطی سروکار دارد؛ آلودگی هوا، تهویه تونلها، تعبیه دستگاههای مناسب برای تهویه، تأسیسات زیرزمینی، خاک‌شناسی و مکانیک خاک، و طراحی راهها، فرودگاهها و بندرها نمونه مباحثی هستند که جهات و ابعاد وسیع امر تونل سازی را نشان می‌دهند.

اگر از دیدگاه علوم کتابداری و فنون مربوط به تهیه و تدارک کتابنامه (bibliography) بنگریم، گرچه این مباحث به خودی خود وارد روشها و شیوه‌های تدوین و تدارک کتابنامه نمی‌شوند، ولی در ساختمان رده بندی (classification) و تعیین توصیفگرها (descriptors) و سرعنوانهای موضوعی (subject headings) نقش بسزایی دارند. گستردگی موضوع تونل سازی و دامنه و عمق اطلاعات مربوط به آن، کتابداران را به حوزه‌های وسیعی می‌کشاند؛ به درستی می‌توان گفت که برخی از رشته‌های مورد بحث در تونل سازی برای مهندسان رشته‌های عمومی نیز ناشناخته است، چه رسد به کتابداران که تنها با کلیات رده‌ها و موضوعات سروکار دارند.

### شیوه‌های عملی در تدارک کتابنامه تونل

در نخستین گام، حدود و دامنه پوشش تعیین شد. مباحث اصلی در این مرحله، به دلیل همکاری یکی از متخصصان\* با گروه تدوین کننده کتابنامه، به آسانی به شکل زیر مشخص شد:

شکل مدارک: کتاب، مقاله، گزارش و جزوه

زبان مدارک: فارسی و انگلیسی. در مورد منابع به زبانهای دیگر، اگر در مورد ایران بود، محدودیتی قایل نشد.

موضوع مدارک: تونل، تونل سازی، تهویه هوا در تونل، کارهای ساختمانی، طراحی، حمل و نقل، مواد و مصالح، وسایل حمل و نقل و تأسیسات درونی تونل؛

زمان مدارک: بجز مدارک فارسی که برای آنها محدودیت در نظر گرفته نشد، برای سایر مدارک، سال ۱۹۷۵ به عنوان پایه انتخاب مدارک در نظر گرفته شد.

دومین مرحله کار تدوین کتابنامه<sup>۴</sup> تونل و تونل سازی، استخراج و ثبت اطلاعات کتابشناختی بود. در این مرحله، کتابنامه‌ها و فهرستهای عمومی و تخصصی که از سوی مراکز اطلاعاتی و ناشران ایرانی و خارجی انتشار یافته است، برگه‌دان کتابخانه‌های تخصصی و عمومی وزارت برنامه و بودجه، و وزارت راه و ترابری، مهندسان مشاور، دانشگاه تهران (دانشکده فنی)، دانشگاه صنعتی شریف، دانشگاه امیر کبیر، و دانشگاههای دیگر مورد بازبینی و بررسی قرار گرفت و پس از شناسایی مدارک مربوط به امر تونل و تونل سازی، اطلاعات کتابشناختی (bibliographic information) هر یک از مدارک و اسناد روی برگه‌های استاندارد ثبت شده، و با استفاده از راهنمای انتشاراتی وزارت برنامه و بودجه<sup>۵\*</sup> یکدست شد.

ثبت اطلاعات کتابشناختی طبق راهنمای انتشاراتی به گونه زیر انجام گرفته است:

#### ۱. اسناد و مدارک زبان فارسی:

الف) کتاب، جزوه و گزارش

امیر سلیمانی، تورج. بررسی بعضی از عوامل مؤثر در پایداری تونل. تهران: ۱۳۶۳، ؟ .  
(دومین سمینار تونلسازی دفتر تحقیقات و معیارهای فنی، وزارت برنامه و بودجه).

ب) مقاله از مجله یا روزنامه، و مقاله از یک دایرةالمعارف یا مجموعه<sup>۶</sup> گزارشهای سمینارها، سمپوزیومها و یا کنفرانسها

لايمن، ب. "آزمایش آئرو دینامیکی با مقیاس کوچک برای تونلها". مترجم منوچهر احتشامی.  
مجموعه<sup>۶</sup> مقاله‌های ارائه شده به چهارمین سمپوزیوم آئرو دینامیکی و تهویه تونلهای راه  
(انگلستان - ۱۹۸۲) (۱۳۶۵)، ۹۲-۱۱۹.

#### ۲. اسناد و مدارک به زبان غیرفارسی

الف) کتاب، جزوه و گزارش

Bickel, J.O.; and Kuesel, T.R. Tunnel Engineering Handbook. Reinhold :  
Van Nost., 1982, 670p.

ب) مقاله از مجله یا روزنامه و مقاله از یک دایرةالمعارف یا مجموعه<sup>۶</sup> گزارشهای سمینارها و یا سمپوزیومها و یا کنفرانسها

De Keyser, Raphael; and others. "la Radio et la Securite Dans  
le Tunnel Benelux A Rotterdam. [Radio and the Safety in the Rotterdam  
Benelux Tunnel] ". Ann. Mines Bleg. No. 5-6 (May-June 1984),  
199-2-6 (in French).

\* ایران. وزارت برنامه و بودجه. مرکز مدارک اقتصادی - اجتماعی و انتشارات. راهنمای انتشاراتی  
وزارت برنامه و بودجه (برای محققان، مؤلفان، مترجمان و ویراستاران). تهران: ۱۳۶۶.

در مرحله سوم، پس از تنظیم و ثبت اطلاعات کتابشناختی روی برگه، با توجه به فهرست مندرجات کتابنامه‌های تخصصی و سرعنوانهای موضوعی ثبت شده روی برگه‌های برگه‌دان عمومی کتابخانه‌ها، نمایه‌های موضوعی انتهایی کلیه فهرستها و کتابنامه‌ها و آثار پایه موجود و قابل دسترسی در زمینه تونل و تونل سازی، موضوعها و توصیفگرهای مربوط به هر مدرک استخراج و پشت برگه مربوط به هر مدرک ثبت شد. سپس، با کمک آثاری چون سیرز، سرعنوانهای موضوعی کتابخانه کنگره (آمریکا)، و اصطلاحنامه‌ها (thesauruses) و فهرستهای انتهایی نظامهای رده بندی دهدهی جهانی (U.D.C.) \* و رده بندی دهدهی دیویی (D.D.C.) \*\*، دستگاه طبقه بندی کتابخانه کنگره آمریکا و نمایه‌های تحلیلی - موضوعی مدارک موجود در زمینه تونل سازی، موضوعها و توصیفگرهای انتخاب شده استاندارد و یکدست شد و زیر اطلاعات کتابشناختی هر مدرک روی برگه مربوط به آن ثبت و درج گردید، به عنوان مثال:

امیر سلیمانی، تورج. بررسی بعضی از عوامل مؤثر در پایداری تونل. تهران: ۱۳۶۳، ۹۰.  
(اولین سمینار تونلسازی دفتر تحقیقات و معیارهای فنی، وزارت برنامه و بودجه).

تونل/

Bickel, J.O.; and Kuesel, T.R. Tunnel Engineering Handbook. Reinhold: Van Nost., 1982, 670p.

Tunnelling/Tunnel Engineering/Handbooks/

در این مرحله، حدود طبقه رده‌ای که مدرک باید در آن قرار گیرد به تقریب تعیین شد که می‌توان آن را "رده بندی اولیه" مدارک تعبیر کرد.

در مرحله چهارم، برای ارائه نظامی منطقی و در عین حال ساده و قابل استفاده برای مراجعه کننده غیر متخصص، در ابتدای امر تا حد امکان نظامهای رده بندی موجود: U.D.C. و D.D.C. کتابخانه کنگره آمریکا و نظامهای رده بندی مورد استفاده ارگانهای تابعه سازمان ملل متحد، مانند:

Aitchison, Jean. Unesco Thesaurus. A Structured List of Descriptors for Indexing and Retrieving Literature in the Fields of Education, Science, Social Science, Culture and Communication. Paris: UNESCO, 1977, 2 Vols.

که از سوی یونسکو انتشار یافته است، و:

Viet, Jean. Macrothesaurus for Information Processing in the Field of Economic and Social Development. New York: United Nations, 1985.

\* Universal Decimal Classification (UDC)

\*\* Dewey Decimal Classification (DDC)



که از سوی سازمان ملل متحد منتشر شده است، مورد مطالعه قرار گرفت. طرح رده بندی مندرج در نظام طبقه بندی U.D.C. و D.D.C. به صورت زیر انعکاس یافته است:

1. Financing and Administration of Transportation Systems
2. Design of Roads, Airports and Related Structures
3. Materials
4. Soils and Rocks
5. Construction and Supervision of Construction Work
- 5.4. Tunnels
6. Maintenance
7. Traffic
8. Accidents
9. Vehicles

در اصطلاحنامه یونسکو طرح زیر مورد استفاده قرار گرفته است:

- G Technology
- G 56/60 Construction Engineering
- G 57 Civil Engineerig
- G 57 Tunnels
- S Human Environment
- S 50/69 Transport
- S 60 Transport Infrastructure
- S 60.30 Tunnels

در اصطلاحنامه کلان توسعه اقتصادی - اجتماعی OECD که بعدها از سوی سازمان ملل تجدید نظر و تجدید چاپ شد، طرح زیر مورد نظر قرار گرفته است:

- 10 Transport
- 10.03 Transport Infrastructure
- 10.03.00 Tunnels
- (Generalities)

.....

طرح طبقه بندی U.D.C. در ایران، برای اولین بار در کتابنامه

مورد استفاده قرار گرفت. ولی از میان چندین طرح و نظام رده‌بندی، طرح و نظام رده بندی زیر، اساس و شاخص کار قرار گرفت:

- G Technology
- G 56/60 Construction Engineering
- G 57 Civil Engineering
- G 57 Tunnels
- S Human Environment
- S 50/69 Transport
- S 60 Transport Infrastructure
- S 60.30 Tunnels

و سپس، اصلاحات لازم در آن براساس نظام رده‌بندی کتابخانه کنگره آمریکا صورت گرفت\* و در نهایت کوشش شد تا طرحی از میان آنها درآید که برای کتابنامه‌های تخصصی و فنی قابلیت کاربرد بیشتری داشته باشد.

قبل از این یادآوری شد که نظامهای رده‌بندی، اگر منطقی باشند، به تقریب در کلیات، هماهنگ و یکدست هستند، و مسئله مهم، طریقه بهره‌برداری از آنهاست که می‌تواند راهنمای مراجعه‌کننده و استفاده‌کننده کتابنامه باشد.

در مرحله پنجم، برای استقرار برگه‌ها و تهیه فهرستها (نمایه‌ها)ی الفبایی از تقسیم بندی مطالب (نظام رده‌بندی) به رشته‌های مختلف، اساس کار مطابق با طبقه‌بندی کارایی و کاربردی متأثر از کلیه رده‌بندیهای موجود استفاده شد و به تناسب موضع و مقام و جایگاه هر رشته، جرح و تعدیلهایی در موضوعها، نمایه‌ها و رده‌ها صورت گرفت که در واقع به دخل و تصرفهای وسیعی منجر شد. مدارک و اسناد زیر هر رشته یا طبقه با تقسیمات کلی و جزئی، به ترتیب حروف الفبایی نام نویسندگان، و در صورت نبود نویسنده فردی یا سازمانی، از سایر مدخلها (چون عنوان) برای نظم پس از رده‌های اصلی استفاده شد.

برای تسهیل در امر مراجعه به متن کتابنامه و یافتن اطلاعات کتابشناختی هر مدرک چهارفهرست الفبایی در پایان کتابنامه آمده است:

- فهرست عام (اشخاص، عناوین، نامهای جغرافیایی): فارسی و انگلیسی
- فهرست تحلیلی یا موضوعی یا توصیفگرها: فارسی و انگلیسی



کتابنامه

## تونل (کلیات)

## TUNNEL (GENERALITIES)

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فهرستها:  
فهرست عام  
فهرست موضوعی

آ

- آبیاری ۷۵۹  
 آبیاری دشت مهران (ساختمان سد و تونل گنجان چم)  
 پروژه، قطعی گزارش مطالعات آبیاری و اقتصادی و  
 کشاورزی و یک جلد محاسبات  
 آ.ر.آ.ت.ب. ۱۰۹۹، ۱۰۹۸  
 آرمان، حسین ۲۵۵، ۲۵۴  
 آزمایش آئرو دینامیکی با مقیاس کوچک برای تونلها  
 آفت ممنترم جریان هوای یک بوستر فن ( Booster Fan )  
 که در فرورفتگی تعبیه شده در دیوار تونل ( Tunnel-  
 Niche ) نصب شده است ۸۹۴  
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الف

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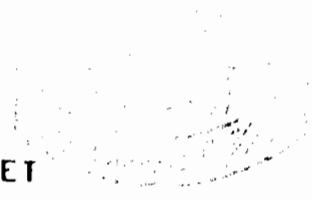


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