

# Current Comments®

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## ISI's *Index to Scientific Book Contents:* Cataloging Composite Books Chapter by Chapter

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Nearly every scientist has experienced frustration in finding a paper published as a chapter in a book. (Such composite works contain the contributions of many authors. At ISI® we call these multiauthored books.) Even if you know the author's name and the title of the paper, you will probably come up empty-handed after searching most library catalogs—electronic or otherwise. Without the name of the book's editor or the title of the volume in which the paper or chapter appears, you are out of luck. The problem is that in traditional book cataloging it is too costly to deal separately with every chapter or paper in a multiauthored work. Rather, librarians catalog only the volume editor's name and the general subject of the volume as implied by its cover title. So, if it is true that you can't judge a book by its cover, then it is especially so with multiauthored books.

Sonya Mirsky, university librarian, Rockefeller University, New York, estimates that over 60 percent of her book and book series acquisitions are now composites, whether a conference proceedings volume, a topical volume in a series, or a one-time collection of papers on a single subject.<sup>1</sup> Such publications have proliferated since the 1950s and access to their contents is increasingly a problem.

In making the transition from card to online catalog at Rockefeller's library, Mirsky undertook the herculean task of including the *contents* of all composite books received as part of the catalog entry. Staff of

the library keyboarded the authors' names and the titles for individual chapters of the multiauthored works they acquired. Rockefeller's online file is complete from 1974 to the present, but it will eventually extend back to 1906. "Of course, we had the advantage of being a small, specialized library. At Harvard University, for example, such a project would be formidable if not impossible," Mirsky said.<sup>1</sup> She also noted that the forthcoming integration of optical-disk technology in library systems would facilitate the inclusion of tables of contents in the catalog entry for each book. Unfortunately, not many libraries have the resources to initiate the full cataloging and indexing of composite books. Until optical-disk integration or other technologies become a reality, ISI is helping researchers and librarians to cope better with multiauthored books.

Although the journal literature has been and will continue to be our primary quarry, I have long been concerned about access to and retrieval of the book literature. For example, in 1973 we added the feature *Current Book Contents*® to *Current Contents*® (CC®). Since then we have listed the contents of thousands of books each year. In 1978 we created the *Index to Scientific & Technical Proceedings*® (ISTP®), which helped increase bibliographic control for the proceedings literature in the sciences. With *ISTP*, these conference and symposia publications began to be indexed in detail just as though the individual papers in them were published in a journal. But composites that

**Table 1:** Subject categories covered in *ISBC*<sup>™</sup>.

Agriculture	Embryology	Instruments & Instrumentation	Operations Research & Management Science
Anatomy & Morphology	Endocrinology & Metabolism	Limnology & Water Resources	Ornithology
Astronomy & Astrophysics	Energy & Fuels	Materials & Polymer Science	Parasitology
Biochemistry & Molecular Biology	Engineering	Mathematics	Pathology
Biology	Entomology	Medical Specialties	Pharmacology & Pharmacy
Biophysics	Environmental Sciences	Medicine, General	Physics
Biotechnology & Applied Microbiology	Fisheries	Meteorology & Atmospheric Sciences	Physiology
Botany	Food Science & Technology	Microbiology	Statistics & Probability
Chemistry	Forestry	Neurosciences	Telecommunications
Computer Sciences	Genetics & Heredity	Nuclear Science & Technology	Toxicology
Cytology & Histology	Geosciences	Nutrition & Dietetics	Veterinary Medicine
Dentistry & Odontology	History & Philosophy of Science	Oncology	Virology
Drugs & Addiction	Horticulture		Zoology
Ecology	Immunology		

were not conference proceedings remained largely inaccessible. So, after considerable market research, we created the *Index to Scientific Book Contents*<sup>™</sup> (*ISBC*<sup>™</sup>). This multidisciplinary reference work also provides *chapter-by-chapter* indexing of multi-authored books.

#### Coverage and Publication Schedule

More than 35,000 chapters from nearly 2,000 newly published composite books were indexed in *ISBC* during 1986. Table 1 lists the many disciplines covered. ISI information specialists determine whether individual volumes are appropriate for *ISBC*. We are striving for coverage of the most important composite books in science.

Moreover, if we index a composite book from a book series, we will continue to index all titles from that series, even if later publications are single-authored. And, for your convenience, each issue of *ISBC* contains an alphabetic listing of all series covered.

I should emphasize that there is little overlap in coverage between *ISBC* and the *Science Citation Index*<sup>®</sup> (*SCI*<sup>®</sup>)—less than 10 percent—and between *ISBC* and *ISTP*—less than 1 percent. In an ideal world it might have been simpler to include all this material in the *Source Index* of the *SCI*, but our market research indicated that such separation was warranted for a number of reasons, not

the least of which is the already large size of the *SCI*. But there were technical and economic factors prohibiting this as well.

We publish *ISBC* quarterly. The first three issues of the year are softbound, whereas the fourth issue is a two-volume, casebound edition that cumulates all entries for the entire year.

When we started *ISBC* in 1986, we were conscious of a need to fill in back years of such information, so we began with 1985. By the time this essay is published, two years of data will be available. We expect to go back to fill in gaps for earlier years as the demand warrants.

#### Five Avenues of Access

*ISBC* comprises five separate indexes. The *Contents of Books Index* is the heart of *ISBC*. This section lists the complete contents of each book, not only the titles of each chapter but also authors, addresses, and page numbers. You can scan the boldface titles of the chapters and when necessary locate the author's name and institution. A sample entry from this section appears in Figure 1. The *Contents of Books Index* is the master source index; the four other indexes of *ISBC* refer back to these main entries through the book identification number.

The *Category Index* is a subject index that allows you to quickly locate books in broad areas of interest. Approximately 100 cate-

Figure 1: Sample display from *ISBC™'s Contents of Books Index*.

<p><b>Book Identification Number</b></p> <p><b>Book Title</b></p> <p><b>Series Title</b></p> <p><b>Publisher, City Copyright Date</b></p>	<p>44371</p> <p><b>DIGITAL IMAGE PROCESSING IN RADIOLOGY</b>  <i>RADIOLOGIC CLINICS OF NORTH AMERICA—VOL. 23, NO. 2</i>              Eds: A E JAMES, J H ANDERSON, C B HIGGINS              Williams &amp; Wilkins Baltimore, 1985, 251 pp., 18 chaps., \$57.00 hardbound.              PREPAYMENT REQUIRED WITH ORDER              ISBN 0-683-04355-2, LCN# 84-5261              WILLIAMS &amp; WILKINS, 428 E PRESTON ST. BALTIMORE, MD 21202</p>	<p><b>International Standard Book Number and Library of Congress Number</b></p> <p><b>Price Information</b></p>
<p><b>Chapter Titles</b></p>	<p>HISTORICAL PERSPECTIVES ON PHOTOELECTRONIC DIGITAL RADIOLOGY.  <i>S. Nudelman</i> (Univ Connecticut, Ctr HiH, Radiol Farmington CT) . . . . . 1</p> <p>DIGITAL RADIOGRAPHY INSTRUMENTATION AND PRINCIPLES OF OPERATION:              RESEARCH FOR THE FUTURE. <i>R.R. Price, A E James, J J Erickson, M J Mazer,              J A Kugel, V N Martin, W H Stephens</i> (Vanderbilt Univ. Med Ctr, Sch Med, Dept              Radiol &amp; Radiol Sci, Div Radiol Sci Nashville TN 37232) . . . . . 28</p> <p>COMPUTER-PROCESSING TECHNIQUES IN DIGITAL RADIOGRAPHY RE-              SEARCH. <i>D.R. Pickens, J A Kugel, W B Waddill, V N Martin, R R Price, A E              James</i> (Vanderbilt Univ. Med Ctr, Dept Radiol &amp; Radiol Sci Nashville TN 37232) . . . . . 43</p> <p>INFORMATION ACQUISITION, RETRIEVAL, AND DISPLAY. <i>R H Schneider</i>              (US FDA, Ctr Devices &amp; Radiol HiH, Off Sci &amp; Technol, 5600 Fishers Lane Rockville              MD 20857) . . . . . 60</p> <p>ASSESSMENT OF ORGAN FUNCTION WITH DIGITAL SUBTRACTION              ANGIOGRAPHY. <i>R.R. Price, D R Pickens, J Diggs, A C Winfield, R Reilly, J A              Patton, V N Martin, C L Partain, A E James</i> (Vanderbilt Univ. Med Ctr, Dept Radiol              &amp; Radiol Sci, Div Radiol Sci Nashville TN 37232) . . . . . 73</p> <p>NEW DIRECTIONS IN PEDIATRIC DIGITAL IMAGING. <i>B D Fletcher,              R B Adams, W C Blackham</i> (Case Western Reserve Univ Hosp, Sch Med, Div              Pediat Radiol Cleveland OH 44106) . . . . . 89</p> <p>INTRAVENOUS DIGITAL SUBTRACTION ANGIOGRAPHY CONTRAST-MEDIA              TIME-CONCENTRATION CURVES. <i>F H Burbank, W R Brady</i> (Stanford Univ. Med              Ctr, Sch Med, Dept Radiol Stanford CA 94305) . . . . . 99</p> <p>DIGITAL RADIOGRAPHY IN INFANTS AND CHILDREN. <i>E J Eflmann, D R Kirks</i>              (Duke Univ. Med Ctr, Dept Radiol Durham NC 27710) . . . . . 108</p> <p>CALCULATION OF PULMONARY TRANSIT-TIME AND PULMONARY BLOOD-              VOLUME BY DIGITAL INTRAVENOUS ANGIOGRAPHY -ASSESSMENT DURING              INTERVENTIONS. <i>R A Slutsky, C B Higgins</i> (Univ Calif San Diego, Med Ctr, Dept              Radiol San Diego CA 92103) . . . . . 115</p> <p>DIGITAL EVALUATION OF RENAL BLOOD-FLOW AND EXCRETION. <i>B J Hillman</i>              (Univ Arizona, Arizona HiH Sci Ctr, Coll Med, Dept Radiol Tucson AZ 85724) . . . . . 125</p> <p>VIDEO DILUTION TECHNIQUE - A RADIOLOGICAL APPROACH TO HEMODY-              NAMICS. <i>B M T Lantz</i> (Univ Calif Davis, Sacramento Med Ctr, Dept Radiol 4301 X              st, Room 109R, Sacramento CA 95817) . . . . . 138</p>	<p><b>Beginning Page Numbers of Chapters</b></p> <p><b>Chapter Authors and First Author's Address</b></p>

gories, listed alphabetically, are used. Three sample entries from the *Category Index* appear in Figure 2. Since a book may fall into several categories, the same volume may be listed repeatedly.

The *Permuterm® Subject Index (PSI)* is the third component index of *ISBC*. It lists words appearing in the titles of the volume as well as those appearing in the titles of individual chapters. A sample entry from the *PSI*, consisting of alphabetically arranged primary terms and co-terms, is illustrated in Figure 3. Anyone familiar with the *PSI* section of the *SCI* will find this index no stranger.

An *Author/Editor Index* simply lists the authors of chapters in and the editors of the multiauthored books selected. So if you can recall only the author's name but remember he wrote a paper in a composite work, this index is a good place to start your search. Figure 4 lists a few sample entries.

Finally, there is the *Corporate Index*, which consists of a geographic section and an organization section. Samples from each appear in Figure 5. The geographic section locates authors by country, state, city, and organization, whereas the organization section provides a cross-reference by identifying the locations of all organizations repre-

Figure 2: Sample display from ISBC™'s Category Index.

		BOOK #
Categories	<b>AGRICULTURE, SOIL SCIENCE</b>	
	ISOTOPES AND RADIATION IN AGRICULTURAL SCIENCES, VOL 1	40027
	NO-TILLAGE AGRICULTURE	40292 <small>Book Number</small>
	ADVANCES IN SOIL SCIENCE, VOL 1	44249
	ADVANCES IN AGRONOMY, VOL 37	44349
Book Titles	<b>ALLERGY</b>	
	PRACTICAL MANAGEMENT OF ASTHMA	37375
	MAST CELL ACTIVATION AND MEDIATOR RELEASE	37376
	<b>ANATOMY &amp; MORPHOLOGY</b>	
	AGING AND CELL STRUCTURE, VOL 2	38344
	ULTRASTRUCTURE OF THE CONNECTIVE TISSUE MATRIX	39766

Figure 3: Sample display from ISBC™'s Permuterm® Subject Index.

		BOOK #	PAGE	
	<b>RADIOLOGICAL APPROACH</b>	44371	138	<i>Book Identification Number identifies complete entry in Contents of Books.</i>
	HEMODYNAMIC	47961	T	
<b>Co-Term</b> <i>These words appeared with the Primary Term in a Book or Chapter Title.</i>	<b>RADIOLOGY</b>			<b>Primary Term</b> <i>This word appeared in the title or Chapter Title of one or more Books.</i>
	ARTERIOGRA. <small>▶</small>	44371	237	
	DIGITAL <small>▶</small>	"	T	
	"	"	1	
	"	"	237	
	HISTORICAL	"	1	
	IMAGE-PROC.	"	T	
	INTERVENTI.	"	237	
	PERSPECTIV.	"	1	
	PHOTOLECT.	"	"	
	SUBTRACTION	"	237	
	USE	"	"	
<b>Full Stop Word</b> <i>This word is on the "Full Stop List" and will not appear as a Primary or Co-Term.</i>	<b>REGARDING</b>			<i>see stop lists</i>
	<b>RENAL</b>			<b>Cross Reference</b> <i>Directs searcher to additional information related to Primary Term.</i>
	sa KIDNEY			
	BLADDER <small>▶</small>	44256	413	
	BLOOD-FLOW <small>▶</small>	44871	125	
	CANCERS	44256	413	
	COMPLICATI.	"	347	
	CYSTIC	44371	383	
	DIGITAL	44371	125	
	DISEASES <small>▶</small>	44256	T	
	DISORDERS	"	"	
	"	"	315	
	"	"	181	
	"	"	405	
	DYSFUNCTION	"	617	
	DYSPROTEIN	"	315	
	EVALUATION	44871	125	
	EXCRETION	"	T	
	FOLLOWING	44256	617	
	HEMOGLOBIN	"	405	
	HOMOTRANSP.	"	617	
	INVOLVEMENT	"	315	
<b>Co-Term same as above.</b>				<b>Indicates Co-Term and Primary Term are in a Book Title.</b>
	<b>RESEARCH</b>			
	see stop lists			
	sa SPECIFIC RESEARCH AREA			
<b>Semi-Stop Word</b> <i>This word is on the "Semi-stop List" and will only appear as a Co-Term.</i>	<b>STANDARDS</b>			<b>Unique Article Indicator</b> <i>This mark (▶) identifies the unique Books and/or Chapter Titles listed for any Primary Term. To avoid repetitive examination of the same title, check only those titles with this mark (▶).</i>
	ANALYSIS <small>▶</small>	44356	567	
	DIGITAL <small>▶</small>	44371	190	
	DRUG	44356	567	
	GLASS-CAPI	"	"	
	GLC-MS	"	"	
	INTERNAL	"	"	
	PERFORMANCE <small>▶</small>	44371	199	
	RADIOGRAPHY	"	"	
				<b>Page number of Chapter Titles as listed in the Contents of Books Index.</b>

Figure 4: Sample display from *ISBC™'s Author/Editor Index*.

		BOOK #	PAGE			
Authors or Editors	{	ABBOTT JC	44238	E	Indicates Book Editor	
		ABRAMS JH	44273	209		Chapter Pages as listed in Contents of Books
		ABUMRAD NN	44172	418		
		ACCOLA RDM	44368	19		
		ADAM H	44351	A		Indicates Author of Single Authored Book

Figure 5: Sample display from *ISBC™'s Corporate Index*.

## GEOGRAPHIC

State City Organization		BOOK #	PG	
{	UTAH			Book Identification Number
	SALT LAKE CITY			
	•UNIV UTAH			
	•DEPT NEPHROL			
	BORDER WA	44256	396	
	•MED CTR			
	•RADIOL			
	NELSON JA	44371	219	
	•SCH MED			
	•DEPT PSYCHIAT			
WAMSLEY JR	44165	352		
	44165	906		

## ORGANIZATION

UNIV UTAH	
UTAH SALT LAKE CITY	

sented by the authors and editors listed. This, too, is modeled after the *SCI Corporate Index*.

*ISBC* was designed to permit you to search systematically—by title words, subject categories, the names of authors or editors, or their institutional affiliations. However, you can also browse through the contents section to make serendipitous discoveries.

You can use *ISBC* for current awareness or retrospective searching. You and your librarian will find it useful for bibliographic verification and in making acquisition decisions. Each entry also carries the International Standard Book Number, the Library

of Congress Number, and price information to facilitate ordering. You can also request reprints by contacting the chapter author, whose address is listed in the entry. However, there will be occasions when reprints will not be available from the author. This depends on the policy of individual publishers of composite books.

*ISBC* does not at present contain a citation index. This would obviously enhance its utility. If *ISBC* continues to be received as warmly as it has been since its introduction, we plan to add a citation index. This additional in-depth indexing would have all the advantages we have discussed for years.

Keep in mind, however, that access to cited chapters in multiauthored books is, of course, provided in the *SCJ's Citation Index*.

### Online Access

ISI also offers access to composite books in the online file *ISI/Index to Scientific & Technical Proceedings & Books*® (*ISI/ISTP&B*®). As the title suggests, this file covers nonproceedings composites also. *ISI/ISTP&B*, the online equivalent of both *ISTP* and *ISBC*, can be searched in ways similar to the printed versions. The file is available on DIMDI (Deutsches Institut für Medizinische Dokumentation und Information) via most major telecommunications networks and direct dial. I previously described this online file in some detail.<sup>2</sup>

The *ISI/ISTP&B* file is also available in machine-readable form (magnetic tapes) for those who can support large in-house databases.

### Towards the All-Electronic Era

As the new technologies make their way to university and corporate libraries and, as is happening more and more, the desktops of researchers, we are approaching the all-electronic era of information nirvana. We are not there yet, however. There are many complex factors in collecting and distributing information throughout the world. While we await electronic and other technologies, gaps remain in the bibliographic apparatus that need to be filled. In the near future I hope to discuss how this type of information may be universally integrated into library catalogs.

\* \* \* \* \*

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### REFERENCES

1. Mirsky S. Personal communication. 4 December 1986.
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