



**SCHOOL OF ELECTRICAL & ELECTRONIC ENGINEERING
UNIVERSITI SAINS MALAYSIA**

**GUIDELINES FOR PREPARING
FINAL YEAR PROJECT REPORT**

Prepared by:

Dr. Zuraini Dahari
Final Year Project Coordinator

(Updated on 11th Feb 2015)

GUIDELINES FOR PREPARING FINAL YEAR PROJECT REPORT

1. APPEARANCE

1.1 Paper

- All copies must be neat and legible.
- Use 80gm, A4 size (210 x 297 mm), and white paper
- Single-sided printing only

1.2 Font Size and Style

- The basic text should be in size of **11-12 point**.
- Chapter headings are to be centered and written in (bold) capital letters.
- The maximum size acceptable for Chapter Headings is 14 point.
- Only **one font style may be used throughout the entire final year project report**, including the title-page, signature page, acknowledgement, bibliography and appendices.
- **Recommended font** types are **Times New Roman** and **Arial**
- Italic variants of the font style may be used for symbols, headings, labels, foreign words
- The usage of bold variants of the same font style may be used in the text of headings and titles

1.3 Line Spacing

- The line spacing should be generally set at **1.5 or 2.0** (double spacing).
- **Single spacing** for **figure titles, long tables, table titles, long quotations, appendices, notes, footnotes, multiline caption and bibliographic entries**

1.4 Margins

- Paper size is set to A4 size throughout the report.
- All Text, Tables, Figures and their captions must conform to the following margins:
 - **Top edge : 2.5 cm**
 - **Bottom edge : 2.5 cm**
 - **Right Side : 2.5 cm**
 - **Left Side : 3.5 cm**
- Typing cannot be below the bottom margin except to complete a footnote or last line of chapter, subdivision per caption.
- A new paragraph must have at least 2 full lines in a page. Otherwise begin on the next page.

1.5 Equation/Symbols

- Please use appropriate software to generate symbols or special characters not found on the computer key board
- For **formula**, use an **equation editor** including subscripts and superscripts
- Please observe proper convention for scientific names
- **Symbols or nomenclature** used shall be **defined and italicized**.
- Standard symbols or acronym normally accepted in engineering can be used. International system unit (SI) shall be used.
- Equation number should be Arabic numerals **enclosed in parentheses on the right-hand margin**.
- Placed in the center and **numbered in relation to chapter**, e.g. in Chapter 1, tables should be numbered as (1.1), (1.2) and so on.
- They should be **cited in the text and numbered according to Chapter**, for example, **in Chapter 1, Eq. (1.1) or Eqs. (1.1)-(1.3)**, in Chapter 2, Eq. (2.1),.....and the rest.
- Example:
- First equation in Chapter 1:

$$a^2 + b^2 = c^2 \quad (1.1)$$

- 3rd equation in Chapter 2:

$$y = mx + c \quad (2.3)$$

1.6 Language

- **English** written report is **highly recommended**
- Please consult your supervisor if you have difficulties writing the report in English
- It is the **student's responsibility** to make sure the language in the thesis is comprehensible and to perform a grammar check and a spell check before submission

1.7 Figures and Tables

- **Each paragraph should begin with sentences, not Figures or Table.**
- **Each figure and table should be referred in the text.**
- **Figure caption** should be **below the figures**
- **Table caption** should be **above the table**.
- Properly centered within the margin. Numbered in relation to chapter, e.g. in Chapter 1, tables should be numbered Figure/Table 1.1, Figure/Table 1.2 and so on
- Numbered in Arabic numeral (Figure/Table 1.1, Figure/Table 1.2 etc) and a caption
- Number must be corresponded with text
- **Illustration, tables, or figures** requiring **more than one page** should have **the number of caption and the “continued”** at the top of each additional page.
- **The table number and title** should be in the **same font size** as the rest of your manuscript.
- **Text in the table** may be reduced to a **smaller size of the same font**.
- Format all tables consistently throughout, including the appendix tables.
- **Example of figure:**

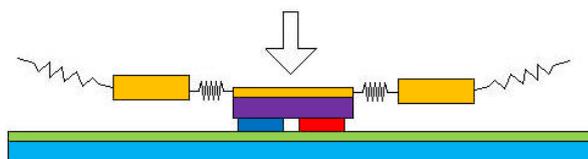


Figure 1.1: Condition of moveable electrode after switching voltage

Eg: *Figure caption below the figure*

- **Example of Table**

Table 1.1: Process Classification

Additive Process	Modifying Process	Subtractive Process
Evaporation	Oxidation	Wet etching
Sputtering	Doping	Dry etching
CVD	Annealing	Sacrificial etching
Spin-coating	UV exposure	Development

Eg: *Table caption above the table*

Table title in font size of 11

Text in table in smaller font size, 10

1.8 Pagination

- All page numbers are without punctuation
- **Preliminaries** such as Abstract, Table of Contents, Acknowledgment are numbered in lower case Roman numerals eg. i, ii, iii.....
- All **text** and **reference pages** are numbered in **Arabic numerals, 1,2, 3,**
- All pages including those with diagrams, tables, etc. must have a page number
- **Appendices** are **labeled** with alphabet e.g. Appendix A with or without page numbering

2. LAYOUT AND ARRANGEMENT OF CONTENTS

- Generally, every thesis is composed of 4 parts namely the Preliminaries, the Text, the Reference material and the Appendices.
- Each part is arranged in a numerical sequence of chapters.

2.1 Preliminaries

- Basically comprises of **Title Page, Acknowledgements, Table of Contents, List of Tables, List of Figures, List of Symbols & Abbreviations (if applicable) and Abstracts**

2.1.1 Title Page (must contain the following):

- Main cover and inner cover
- Title of Thesis
- Full name of Candidate
- Thesis submitted in fulfillment of the requirements for the degree of Bachelor of Engineering (Electronic/Electrical/ Mechatronic Engineering)
- Month and Year thesis was submitted for examination
- The **font size** used for the cover should be in size of **16 point**
- **DO NOT number this page**
- See sample in **Appendix 1 (pg 1: main cover, pg. 2 for inner cover)**

2.1.2 Acknowledgements

- This section may include appreciation of all those who assisted the author in the preparation of his/her final year project, particularly the supervisor(s).
- Number this page “ii”
- Refer sample in Appendix 2

2.1.3 Table of Contents

- Comprises the titles of parts, sections or chapters and their subdivisions
- Must be **worded exactly as in the text**.
- Must have **Headings** (1,2,3 and so on), **sub-headings (1.1,1.2,1.3)** and **sub-headings (1.2.1,1.2.2 and so on)**
- **Further divisions** to be indicated by **small letters in parenthesis e.g 1.2.1(a), 1.2.1(b)** and so on
- Start numbering this page from “iii” and onwards
- See **Appendix 3**

2.1.4 List of Tables and List of Figures

- Must be worded exactly as in the text
- See Appendix 4 and 5

2.1.5 List of Symbols and Abbreviations

- If applicable, this should appear after the List of Tables and List of Figures
- Page numbered in Roman numeral accordingly
- Refer sample in Appendix 6

2.1.6 Abstract

- An Abstract is a **summary on the entire thesis** and should contain a brief write-up of the **problem statement, objective, methodology and summary of the findings** in context of the whole study
- Must be in **Bahasa Malaysia and English**
- The **Bahasa Malaysia abstract appears**
- **Both versions** must have their **respective titles**
- **Not more than 500 words** and double spacing, written in **one paragraph**
- Placed immediately before Chapter 1
- Page numbered in Roman numeral accordingly
- See Appendix 7

2.2 Report Content

- **Length of report: max of 30,000 words** (excluding Appendices)
- This section comprises general contents in the report
- A **general guideline** for the report content are as in Table 1.2 below
- However, it **may varies** accordingly based on the suitability of the **project scope** and the **supervisor’s suggestion**
- References **MUST** be cited. **PLAGIARISM** may be punishable by a grade of **F (FAIL)**

Table 1.2: General Guideline for FYP Content

No	Items	Guidelines
1	<p>Chapter 1 Introduction</p> <ul style="list-style-type: none"> • Significant of project (overviews) • Problem statement (why to do this project specifically) • Objective • Scope • Outline of report 	<ul style="list-style-type: none"> • Gives a background and highlights the problems under in investigation by describing the status of the problem(s) conceptually or theoretically • Sets forth the scope and objectives of the study
2	<p>Chapter 2 Literature review</p> <ul style="list-style-type: none"> • Summaries of past works • Synthesize and interpret • Relevant fundamental background related to research background 	
3	<p>Chapter 3 Methodology/ Project Implementation</p> <ul style="list-style-type: none"> • Logically organized • Clear and concise work performed • Approach and methods used • Clearly outlined and justified • Appropriate technologies, instrumentation, software and assumption 	<ul style="list-style-type: none"> • Contains detailed description for experiments carried out • Experimental methods should be described so that another researcher will have no difficulty replicating them
4	<p>Chapter 4 Results and Discussion</p> <ul style="list-style-type: none"> • Analysis • Overall design • implementation • test and evaluation • illustration 	<ul style="list-style-type: none"> • Consists of analytical, simulation result and experimental results • Can be presented as a series of figures, tables etc. with a descriptive text • Analysis of data such as statistical analysis can be stated • Discusses the outcome of research in relation to results obtained and existing evidence/reports
5	<p>Chapter 5 Conclusion</p> <ul style="list-style-type: none"> • Conclusion followed with logically from data and argument • Impact and limitation of the work • Brief statement of the successfulness • Future work 	<ul style="list-style-type: none"> • The conclusions section should be a summary of the aims of project and a restatement of its main results, i.e. what has been learnt and what it has achieved. • An effective set of conclusions should not introduce new material. Instead it should briefly draw out, summarize, combine and reiterate the main points that have been made in the body of the project report and present opinions based on them. • Recommendation for future research • Conclusion of the study

2.3 Reference Materials

References

- Start on a fresh page
- The title REFERENCES to be centered in capital letters
- Single spacing within entry, and double-spacing between entries
- References including books, conference and journals papers should be cited as references. At least **5 journals** should be cited in the references.
- References using **Wikipedia website is not allowed**
- **References** are the list of materials **cited** in your thesis and is listed according to the appropriate style used in your discipline
- Use **one of these** referencing systems: APA/ HARVARD/ IEEE
- Refer to Appendix 8

- We **recommend** that you use the bibliographic management software **EndNote** available from the USM Library website or use any other tools such as BIBTEX
- Refer to Endnote Application notes from USM's library briefing

2.4 Appendices

- Referred to in the text
- Comprises of supplementary illustrative materials, original data, and quotation too long for inclusion in the text or lengthy experimental methods
- Words APPENDICES to be centered in capital letters
- Do not number this page
- Must be listed in the Table of Contents

3. SUBMISSION

First Submission

- The first submission of the final year project report for evaluation and examination purpose should be in **3² copies**. In addition, 2 copies of technical paper are also required.
- It must be in ~~hard cover~~^{loose} ~~bindings which can be purchased from the EE main office~~
- Submission should be made to EE main office and will be recorded

Final Submission

- After the viva-voce session, **corrections** should be made according to the **supervisor's and examiner's comments and suggestions**.
- It should be ~~3~~² copies in **permanent hard-cover** binding (Dark-blue colour) and one technical paper.
- Obtain supervisor's & examiner's signature
- **Bind & submit to EE Office together** with ~~2~~³ **softcopies of thesis in CD**.
- Information printed on the **cover** and the **spine** must be with **gold-colored** letters of size 16-18 (depends on printing)
- **14-16 point size (for the spine)**-depends on the thickness of report and the length of title and name
- Refer Appendix 1 for cover and App. 9 for the spine
- The color of the cover must be in dark-blue



Amendment date: 25/04/2017

- **CD cover** is based on the **given format** (Appendix 10)

***This guideline is developed and modified based on “A Guide to the Preparation, Submission and Examination of Theses” by Institut Pengajian Siswazah, Universiti Sains Malaysia.*

APPENDIX 1:

FYP TITLE

STUDENT'S NAME

UNIVERSITI SAINS MALAYSIA

2012

FYP TITLE

by

STUDENT'S NAME

**Thesis submitted in partial fulfillment of the
requirements for the degree of
Bachelor of Engineering (Electronic Engineering)**

JUNE 2012

ACKNOWLEDGEMENTS

This dissertation is dedicated to everyone in the field of image processing who embarks the journey of expanding the collection of knowledge and transcendent passion for image processing.

I'm grateful to Dr. A my thesis advisor and project supervisor, for seeing the promise of this thesis and achieving research conducted under his watchful eyes. His guidance and patience throughout the tumultuous time of conducting scientific investigations related to this project are much appreciated. Besides, his invaluable support and insightful suggestions, not to mention all the hardwork and extra time poured in has resulted in the completion of this project, with the achievement of few publications under his belt.

My special thank reached out to Dr. B for his contribution, helpful comments and critical evaluation during the task of writing technical papers.

Because science and engineering is not a collection of knowledge, I would like to thank Dr. C, my project examiner, for his positive feedback and suggestions in providing a deeper understanding.

Last but not least, applauds and appreciations are dedicated to Mr. D, Mr. E, Pik and other friends for their inputs, supports and friendships.

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LIST OF ABBREVIATION

ASD	Adjustable speed drives
BK	Breaker
Cpf	Cumulative probability function
CIGRE	International Congress of Large Power Systems
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
IEEE PES	IEEE Power Engineering Society
I_{sc}	Short Circuit Current
I_L	Load Current
LPC	Large Power Consumer
MS	Microsoft
MVA	Mega Volt Ampere
NOP	Normally open position
Pdf	Probability density function
PCC	Point of Common Coupling
SCC	Short Circuit Current
SCR	Short Circuit Ratio
SHI	Shunt Harmonic Impedance
THD	Total Harmonic Distortion
THD_v	Voltage Total Harmonic Distortion

PEMROSESAN IMEJ MENGGUNAKAN SISTEM PINTAR

ABSTRAK

Digital imej dari pelbagai produk elektronik pengguna pada kebiasaannya akan mengalami kerosakan dari segi kualiti imej ketika proses pemerolehan, pengrekodan, dan penghantaran yang berpunca dari pelbagai ketidak-unggulan dalam pengesanan, elemen penderia, serta gangguan persekitaran ketika dalam medium penghantaran. Untuk aplikasi pemprosesan imej, sebarang hingar yang mencemarkan imej perlulah dibaiki agar proses pemprosesan imej pada peringkat berikutan (seperti segmentasi imej, pengesanan pinggir dan sebagainya) dapat dilakukan dengan sempurna. Ini termasuk penapisan dedenyut yang hadir dalam imej digital. Terutama dalam penapisan hingar impuls, penuras-penuras yang menggunakan mekanisma median dapat menapis hingar impuls dengan baik. Di samping itu, terdapat sekumpulan penuras yang menggunakan prinsip sistem pintar (penuras-penuras FIRE) turut dapat menapis hingar impuls dengan memuaskan. Dalam projek ini, sejenis penuras baru untuk penapisan hingar impuls berdasarkan median dan logik kabur telah dicadangkan dan dibina. Penuras ini bukan setakat dapat menghilangkan hingar impuls, malah dapat mengekalkan struktur halus dan bentuk objek dalam imej. Di samping itu, algoritma penuras baru ini adalah mudah untuk dijanakan dan tidak memakan masa yang panjang ketika proses penapisan dijalankan.

**IMAGE PROCESSING WITH ARTIFICIAL
INTELLIGENCE**

ABSTRACT

Digital images acquired through many consumer electronics products are often corrupted by salt-and-pepper noise during image acquisition, recording and transmission due to a number of non idealities encountered in image sensors, communication channels and external disturbance. In most image processing applications, it is of vital importance to remove the noise from the image data because the performance of subsequent image processing tasks such as edge detection, image segmentation and others. This includes the elimination of salt-and-pepper noise contained in the images and at the same time preserving the image integrity. Specifically for the removal of salt-and-pepper noise, the median-based filters have been chief in this regard. Besides, there is the class of fuzzy-inference ruled by else-action (FIRE) filters, employing soft computing techniques to filter salt-and-pepper noise. In this project, a new fuzzy switching median (FSM) filter utilizing fuzzy techniques in image processing is developed. The designed filter is able to remove salt-and-pepper noise in digital images while preserving image details and textures very well. By incorporating fuzzy reasoning in correcting the detected noisy pixel, the low complexity FSM filter is able to outperform some well known existing salt-and-pepper noise fuzzy and classical filters.

APA Referencing – Library Quick Guide

The APA (American Psychological Association) Style of referencing is an author-date system. There have been several editions of the *Publication Manual*, the aim of which is to aid authors in the preparation of manuscripts. Always follow information given to you by your lecturer regarding referencing.

The information and examples are derived from the following source:

American Psychological Association. (2001). *Publication Manual of the American Psychological Association* (5th ed.). Washington, DC: Author.

In-text references

Single author:

- Robertson (1998) has further developed this argument.
- In a major study (Jones, 2004), it was found that...
- ...and this argument has been further developed (Robertson, 1998).
- Rowbotham (1997) states that "it is essential to organise knowledge into meaningful chunks" (p. 361). (Note that a page number is given for quotes.)

Single author entries precede references with multiple authors beginning with the same name.

When an author has published more than one cited article in the same year, distinguish each article by using a lower case letter after the year within the brackets (this is also written in the reference list).

- In a study by Brightman (2000a), coping with financial ruin was investigated.

Two authors (Note that an ampersand (&) is used between the names only when they appear in brackets):

- ... and this is therefore not appropriate (Sleeman & Jones, 1999).
- Sleeman and Jones (1999) state that ...

Three, four or five authors – Cite all authors the first time the reference occurs:

- ... should be used only when appropriate (Smith, Spencer, Thomas, & Kay, 2001).

The second and subsequent times – Use et al. (Note the full-stop after al.)

- Smith et al. (2001) conclude that ...

If cited again within that paragraph – drop the year:

- Smith et al. also found that ...

Six or more authors – Use only the first listed surname and year:

- Cander et al. (2004) identified ...

More than one citation is provided in your sentence – List all citations alphabetically, with a semi-colon to separate:

- There are indications that passive smoking is potentially threatening to health (Applebee, 1997; Cookson, 1997; Sheldon & James, 1998).

Secondary citation – Acknowledges the work of an author that you have read about in another's work:

- Jones (as cited in McKenzie, 2003) believes that...
- ...to improve learning (Jones, as cited in McKenzie, 2003).

In the Reference List you refer to the author of the text from which your information came (in this case, McKenzie).

Personal communication – Face-to-face interview or conversation, telephone call, facsimile, letter or email, etc. may only be cited as an in-text citation, NOT in the reference list:

- A. B. Grillo (personal communication, July 2, 1999)
- (A. B. Grillo, personal communication, July 2, 1999)

Electronic sources

Many electronic sources do not provide page numbers, unless they are in PDF format. If quoting from a website that is *NOT* a PDF, use the name of the section and paragraph number as part of the in-text reference. (e.g. United Nations, 2007, preamble, para. 3).

An alternative to using the word **para** is the symbol ¶ (**pilcrow sign**) (e.g. United Nations, 2007, preamble section, ¶ 3) If there are no sections on the page, count the paragraphs from the beginning.

Reference List

The Reference List must be double-spaced, and second and subsequent lines of the reference should be indented:

italicise: name of journal and volume, book title, conference title.

Examples

Book—one author

Crotty, M. (1998). *The foundations of social research*. Sydney: Allen & Unwin.

Book—two to six authors

Calfee, R. C., & Valencia, R. R. (1991). *APA guide to preparing manuscripts for journal publication*. Washington, DC: American Psychological Association.

Book—more than six authors

Maxwell, C. J., Christenson, M. A., Jones, L., White, L., Searle, A. P., Smith, J. E. et al. (2003). *The problems of citing books with too many authors*. Melbourne: Fictional Publishing.

An edited book

Cookson, A., & Spooner, C. (Eds.). (1999). *Theory and practice of education: An integrated approach*. London: Sage.

Book chapter

Beizer, J. L., & Timiras, M. L. (1994). Pharmacology and drug management in the elderly. In P. S. Timiras (Ed.), *Physiological basis of aging and geriatrics* (2nd ed., pp. 279-284). Boca Raton: CRC Press.

e-book from a database

Hersen, M. (2004). *Psychological assessment in clinical practice: A pragmatic guide*. New York: Taylor & Francis Routledge. Retrieved April 7, 2005, from NetLibrary.

e-book from the internet

Lonner, W. J., Dinnel, D. L., Hayes, S. A., & Sattler, D. N. (Eds.), *Online Readings in Psychology and Culture*. Washington: Center for Cross-Cultural Research, Western Washington University. Retrieved September 15, 2005, from http://www.ac.wvu.edu/~culture/Chen_Farruggia.htm.

Journal article

Henry, D. B., Tolan, P. H., & Gorman-Smith, D. (2001). Longitudinal family and peer group effects on violence and non-violent delinquency. *Journal of Clinical Child Psychology*, 30, 172-186.

e-journal article in pdf

Brown, A. (2006). Prenatal infection as a risk factor for schizophrenia [Electronic version]. *Schizophrenia bulletin*, 32, 200-202.

e-journal article from a database

Inwald, D., Roland, M., Kuitert, L., McKenzie, S. A., & Petros, A. (2001). Oxygen treatment for acute severe asthma. *BMJ*, 323(7302), 98-100. Retrieved August 2, 2001, from ProQuest Health and Medical Complete database.

e-journal article from the internet

Notess, G. R. (1997). On the Net: Internet Search Techniques and Strategies. *ONLINE Magazine*, 21(4). Retrieved November 18, 1999, from <http://www.onlineinc.com/onlinemag/JulOL97/net7.html>.

Website documents

United Nations. (2007). *Universal declaration of human rights*. Retrieved March 19, 2007, from <http://www.un.org/Overview/rights.html>.

Harvard Referencing – Library Quick Guide

The Harvard Style of referencing is widely accepted in scholarly circles. Each reference is indicated in the text by the author and date of the publication cited, sometimes with added information such as page numbers. The full details of these references are listed at the end of the text in a Reference list. Always follow information given to you by your lecturer regarding referencing.

The information and examples are derived from the following source:

Style manual for authors, editors and printers 2002, 6th edn, John Wiley & Sons, Australia.

In-text references

Single author

(Note that citations can be at the beginning, middle or end of the sentence)

- In a study by Brightman (2003), financial ruin was investigated
- ...financial ruin was investigated (Brightman 2003).
- Brightman (2000, p. 48) states that 'financial ruin was more common in the 1980s.' (Note: page no. for quotes.)

When an author has published more than one cited article in the same year, distinguish each article by using a lower case letter after the year within the brackets (this is also written in the reference list):

- In a study by Brightman (2003a), financial ruin was investigated.

Two or three authors

- ...and this is therefore not appropriate (Sleeman & Jones 2004).
- Stewart, Millar and Jones (2003) state that...

Note that an ampersand (&) is used between the names only when they appear in brackets.

Four or more authors

- ...should be used only when appropriate (Smith et al 2001).
- Smith et al (2001) conclude that...

Edited work

- (eds. Muller, Cloete & Badat 2001)
- edited by Muller, Cloete and Badat (2001)

More than one citation is provided in your sentence

List all citations alphabetically, with a semi-colon to separate.

- There are indications that passive smoking is potentially threatening to health (Applebee 1997; Cookson 1997; Sheldon & James 1998).

Secondary citation

This is when you refer to the work of one author cited by another.

- Jones (cited in McKenzie 2003) believes that...
- ...to improve learning (Jones, cited in McKenzie 2003).

In the Reference List you refer to the author of the text from which your information came (in this case, McKenzie).

Website documents

Many electronic sources do not provide page numbers, unless they are in PDF format. If quoting or paraphrasing from a website, that is NOT a PDF, then use as part of the in-text reference either:

- a section heading, (eg. United Nations 2007, article 1)
- a paragraph number (eg. United Nations 2007, para.10)

Personal communication

Personal communication may only be cited in the text, NOT in the Reference List. The information, including day, month and year, is provided in the text, or parenthetically. Details of the organisation that the person represents may also be included.

Note that initials precede the family name.

- When interviewed on 24 April 1999, Ms S Savieri confirmed.....
- Ms S Savieri confirmed this by facsimile on 24 April 1999.
- It has been confirmed that an outbreak occurred in Shepparton (S Savieri 1999, pers. comm., 24 April).
- Ms S Savieri (Australian Institute of Criminology) confirmed this by email on 24 April 1999.

Encyclopaedia or dictionary

Encyclopaedias and dictionaries may only be cited in the text, NOT in the Reference List.

- (*Literacy in America: an encyclopedia* 2001, p.25) states.....
- *The Macquarie dictionary* (1997) defines it as.....

Examples

Book – single author

Jones, B 1995, *Sleepers, wake!: technology and the future of work*, 4th edn, Oxford University Press, Melbourne.

Book – two or three authors

Stein, B & Reynolds, JS 2000, *Mechanical and electrical equipment for buildings*, 9th edn, John Wiley & Sons, New York.

Book – four or more authors

Yarbro, CH, Frogge, MH, Goodman, M & Groenwald, SL 2000, *Cancer nursing*, 5th edn, Jones and Bartlett, Boston.

Book chapter

Crawford, RJ 1998, 'Plastics available to the designer', in *Plastics engineering*, 3rd edn, Heinemann-Butterworth, Oxford, pp. 6-18.

Edited book

Muller, J, Cloete, N & Badat, S (eds.) 2001, *Challenges of globalisation: South African debates with Manuel Castells*, Maskew Miller Longman, Pinelands, Cape Town.

Journal article

Zivkovic, B & Fujii, I 2001, 'An analysis of isothermal phase change of phase change material within rectangular and cylindrical containers', *Solar Energy*, vol. 70, no.1, pp. 51-61.

e-journal article from a database

Easthope, G 2004, 'Consuming health: the market for complementary and alternative medicine', *Australian Journal of Primary Health*, vol. 10, no. 2, pp. 68-75, viewed 30 March 2005, Australian Public Affairs Full Text.

Newspaper article

Tobler, K & Kerin, J 2002, 'Hormone alert for cancer', *The Australian*, 10 July, p. 1.

Note: if the newspaper article does NOT have an author then provide details as an in-text citation only, NOT in the Reference List.

For example: *The Australian* (10 July 2002, p.1) states.....

Newspaper article from a database

Sinclair, L 2008, 'Scott sees ABC as a cultural beacon in a flood of services', *The Australian*, 17 April, viewed 7 August 2007, Factiva.

Website documents

United Nations, 2007, *Universal declaration of human rights*, United Nations, viewed 19 March 2007, <<http://www.un.org/Overview/rights.html>>

Course readings from RMIT University Library reserve

Dixon, C 2002, *Mechanical design 2: project resource material*, course readings from MIET1068, RMIT University, Melbourne, viewed 22 July 2005, RMIT University Library.

Course readings from RMIT University Library e-reserve

Holland, J 2004, *Lecture notes 3: bulldozers and land clearing*, course readings from CIVE1057, RMIT University, Melbourne, viewed 22 July 2005, RMIT University Library
<<http://eresources.lib.rmit.edu.au/ereserve/notes02/cive1057/31259006935782.pdf>>.

Course readings from RMIT University Learning Hub

Smith, H 2005, *Metadata*, course readings from ISYS6655, RMIT University, Melbourne, viewed 8 July 2005, RMIT University Learning Hub.

IEEE Citation Reference

IEEE Publications uses *Webster's College Dictionary*, 4th Edition. For guidance on grammar and usage not included in this manual, please consult *The Chicago Manual of Style*, published by the University of Chicago Press.

Citation standards in this reference are provided for:

Books	Online Sources
Handbooks	Patents, Standards, Theses, Unpublished
Reports	Periodicals
Conference Technical Articles	References

Books

Basic Format:

- [1] J. K. Author, "Title of chapter in the book," in *Title of His Published Book*, xth ed. City of Publisher, Country if not USA: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx-xxx.

NOTE: Use *et al.* when three or more names are given.

Examples:

- [1] B. Klaus and P. Horn, *Robot Vision*. Cambridge, MA: MIT Press, 1986.
- [2] L. Stein, "Random patterns," in *Computers and You*, J. S. Brake, Ed. New York: Wiley, 1994, pp. 55-70.
- [3] R. L. Myer, "Parametric oscillators and nonlinear materials," in *Nonlinear Optics*, vol. 4, P. G. Harper and B. S. Wherret, Eds. San Francisco, CA: Academic, 1977, pp. 47-160.
- [4] M. Abramowitz and I. A. Stegun, Eds., *Handbook of Mathematical Functions* (Applied Mathematics Series 55). Washington, DC: NBS, 1964, pp. 32-33.
- [5] E. F. Moore, "Gedanken-experiments on sequential machines," in *Automata Studies* (Ann. of Mathematical Studies, no. 1), C. E. Shannon and J. McCarthy, Eds. Princeton, NJ: Princeton Univ. Press, 1965, pp. 129-153.
- [6] Westinghouse Electric Corporation (Staff of Technology and Science, Aerospace Div.), *Integrated Electronic Systems*. Englewood Cliffs, NJ: Prentice-Hall, 1970.
- [7] M. Gorkii, "Optimal design," *Dokl. Akad. Nauk SSSR*, vol. 12, pp. 111-122, 1961 (Transl.: in L. Pontryagin, Ed., *The Mathematical Theory of Optimal Processes*. New York: Interscience, 1962, ch. 2, sec. 3, pp. 127-135).
- [8] G. O. Young, "Synthetic structure of industrial plastics," in *Plastics*, vol. 3, *Polymers of Hexadromicon*, J. Peters, Ed., 2nd ed. New York: McGraw-Hill, 1964, pp. 15-64.

Handbooks

Basic Format: [1] *Name of Manual/Handbook*, x ed., Abbrev. Name of Co., City of Co., Abbrev. State, year, pp. xx-xx.

Examples:

- [1] *Transmission Systems for Communications*, 3rd ed., Western Electric Co., Winston-Salem, NC, 1985, pp. 44-60.
- [2] *Motorola Semiconductor Data Manual*, Motorola Semiconductor Products Inc., Phoenix, AZ, 1989.
- [3] *RCA Receiving Tube Manual*, Radio Corp. of America, Electronic Components and Devices, Harrison, NJ, Tech. Ser. RC-23, 1992.

TR-0200 (4230-46)-3, Nov. 1988.

Reports

The general form for citing technical reports is to place the name and location of the company or institution after the author and title and to give the report number and date at the end of the reference.

Basic Format:

- [1] J. K. Author, "Title of report," Abbrev. Name of Co., City of Co., Abbrev. State, Rep. xxx, year.

Examples:

- [1] E. E. Reber *et al.*, "Oxygen absorption in the earth's atmosphere," Aerospace Corp., Los Angeles, CA, Tech. Rep. Angeles, CA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.
- [2] J. H. Davis and J. R. Cogdell, "Calibration program for the 16-foot antenna," Elect. Eng. Res. Lab., Univ. Texas, Austin, Tech. Memo. NGL-006-69-3, Nov. 15, 1987.
- [3] R. E. Haskell and C. T. Case, "Transient signal propagation in lossless isotropic plasmas," USAF Cambridge Res. Labs., Cambridge, MA, Rep. ARCRL-66-234 (II), 1994, vol. 2.
- [4] M. A. Brusberg and E. N. Clark, "Installation, operation, and data evaluation of an oblique-incidence ionosphere sounder system," in "Radio Propagation Characteristics of the Washington-Honolulu Path," Stanford Res. Inst., Stanford, CA, Contract NOBSR-87615, Final Rep., Feb. 1995, vol. 1.
- [5] P. Diament and W. L. Lupatkin, "V-line surface-wave radiation and scanning," Dept. Elect. Eng., Columbia Univ., New York, Sci. Rep. 85, Aug. 1991.

Conference Technical Articles

The general form for citing technical articles published in conference proceedings is to list the author/s and title of the paper, followed by the name (and location, if given) of the conference publication *in italics* using these standard abbreviations.

<i>When the word below appears in the conference publication title,</i>	<i>abbreviate to</i>
Annals	Ann.
Annual	Annu.
Colloquium	Colloq.
Conference	Conf.
Congress	Congr.
Convention	Conv.
Digest	Dig.
Exposition	Expo.
International	Int.
National	Nat.

<i>When the word below appears in the conference publication title,</i>	<i>abbreviate to</i>
Proceedings	Proc.
Record	Rec.
Symposium	Symp.
Technical Digest	Tech. Dig.
Technical Paper	Tech. Paper
First	1st
Second	2nd
Third	3rd
Fourth/nth ...	4th/nth...

Write out all the remaining words, but omit most articles and prepositions like "of the" and "on." That is, *Proceedings of the 1996 Robotics and Automation Conference* becomes *Proc. 1996 Robotics and Automation Conf.*

Basic Format:

- [1] J. K. Author, "Title of paper," in *Unabbreviated Name of Conf.*, City of Conf., Abbrev. State (if given), year, pp. xxx-xxx.

For an electronic conference article when there are no page numbers:

- [1] J. K. Author [two authors: J. K. Author and A. N. Writer] [three or more authors: J. K. Author et al.], "Title of Article," in [Title of Conf. Record as it appears on the copyright page], [copyright year] © [IEEE or applicable copyright holder of the Conference Record]. doi: [DOI number]

For an unpublished paper presented at a conference:

- [1] J. K. Author, "Title of paper," presented at the Unabbrev. Name of Conf., City of Conf., Abbrev. State, year.

Online Sources

The basic guideline for citing online sources is to follow the standard citation for the source given previously and add the Digital Object Identifier (DOI) at the end of the citation, or add the DOI in place of page numbers if the source is not paginated. The DOI for each IEEE conference article is assigned when the article is processed for inclusion in the IEEE Xplore digital library and is included with the reference data of the article in Xplore. See The DOI System for more information about the benefits of DOI referencing.

The following sources are unique in that they are electronic only sources.

FTP

Basic Format:

- [1] J. K. Author. (year). *Title* (edition) [Type of medium]. Available FTP: Directory: File:

Example:

- [1] R. J. Vidmar. (1994). *On the use of atmospheric plasmas as electromagnetic reflectors* [Online]. Available FTP: atmnext.usc.edu Directory: pub/etext/1994 File: atmosplasma.txt

WWW

Basic Format:

- [1] J. K. Author. (year, month day). *Title* (edition) [Type of medium]. Available: [http://www.\(URL\)](http://www.(URL))

Example:

- [1] J. Jones. (1991, May 10). *Networks (2nd ed.)* [Online]. Available: <http://www.atm.com>

E-Mail

Basic Format:

- [1] J. K. Author. (year, month day). *Title* (edition) [Type of medium]. Available e-mail: Message:

Example:

- [1] S. H. Gold. (1995, Oct. 10). *Inter-Network Talk* [Online]. Available e-mail: COMSERVE@RPIECS Message: Get NETWORK TALK

Telnet

Basic Format:

- [1] J. K. Author. (year, month day). *Title* (edition) [Type of medium]. Available Telnet: Directory: File:

Example:

- [1] V. Meligna. (1993, June 11). *Periodic table of elements* [Online]. Available Telnet: Library.CMU.edu Directory: Libraries/Reference Works File: Periodic Table of Elements

Patents, Standards, Theses, Unpublished

Patents

Basic Format:

- [1] J. K. Author, "Title of patent," U.S. Patent *x xxx xxx*, Abbrev. Month, day, year.

Example:

- [1] J. P. Wilkinson, "Nonlinear resonant circuit devices," U.S. Patent 3 624 125, July 16, 1990.

NOTE: Use "issued date" if several dates are given.

Standards

Basic Format:

- [1] *Title of Standard*, Standard number, date.

Examples:

- [1] *IEEE Criteria for Class IE Electric Systems*, IEEE Standard 308, 1969.
[2] *Letter Symbols for Quantities*, ANSI Standard Y10.5-1968.

Theses (M.S.) and Dissertations (Ph.D.)

Basic Format:

- [1] J. K. Author, "Title of thesis," M.S. thesis, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.
[2] J. K. Author, "Title of dissertation," Ph.D. dissertation, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.

Examples:

- [1] J. O. Williams, "Narrow-band analyzer," Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, 1993.
[2] N. Kawasaki, "Parametric study of thermal and chemical nonequilibrium nozzle flow," M.S. thesis, Dept. Electron. Eng., Osaka Univ., Osaka, Japan, 1993.
[3] N. M. Amer, "The effects of homogeneous magnetic fields on developments of *tribolium confusum*," Ph.D. dissertation, Radiation Lab., Univ. California, Berkeley, Tech. Rep. 16854, 1995. *** *The state abbreviation is omitted if the name of the university includes the state name, i.e., "Univ. California, Berkeley."****
[4] C. Beclé, These de doctoral d'état, Univ. Grenoble, Grenoble, France, 1968.

Unpublished

These are the two most common types of unpublished references.

Basic Format :

- [1] J. K. Author, private communication, Abbrev. Month, year.
[2] J. K. Author, "Title of paper," unpublished.

Examples:

- [1] A. Harrison, private communication, May 1995.
[2] B. Smith, "An approach to graphs of linear forms," unpublished.
[3] A. Brahms, "Representation error for real numbers in binary computer arithmetic," IEEE Computer Group Repository, Paper R-67-85.

Periodicals

NOTE: When referencing IEEE Transactions, the issue number should be deleted and month carried.

Basic Format:

[1] J. K. Author, "Name of paper," *Abbrev. Title of Periodical*, vol. *x*, no. *x*, pp. *xxx-xxx*, Abbrev. Month, year.

Examples:

- [1] R. E. Kalman, "New results in linear filtering and prediction theory," *J. Basic Eng.*, ser. D, vol. 83, pp. 95-108, Mar. 1961.
- [2] Ye. V. Lavrova, "Geographic distribution of ionospheric disturbances in the F2 layer," *Tr. IZMIRAN*, vol. 19, no. 29, pp. 31-43, 1961 (Transl.: E. R. Hope, Directorate of Scientific Information Services, Defence Research Board of Canada, Rep. T384R, Apr. 1963).
- [3] E. P. Wigner, "On a modification of the Rayleigh-Schrodinger perturbation theory," (in German), *Math. Naturwiss. Anz. Ungar. Akad. Wiss.*, vol. 53, p. 475, 1935.
- [4] E. H. Miller, "A note on reflector arrays," *IEEE Trans. Antennas Propag.*..., to be published.**
- [5] C. K. Kim, "Effect of gamma rays on plasma," submitted for publication. **
- [6] W. Rafferty, "Ground antennas in NASA's deep space telecommunications," *Proc. IEEE* vol. 82, pp. 636-640, May 1994.

** Always use this style when the paper has not yet been accepted or scheduled for publication. Do not use "to appear in."

Abbreviations for IEEE Periodicals

Proceedings of the IEEE abbreviates to: Proc. IEEE

Proceedings of the IRE abbreviates to: Proc. IRE (*until 1962*)

IEEE Journals	IEEE J. Comput. Aid. Des. IEEE J. Ocean. Eng. IEEE J. Quantum Electron. IEEE J. Sel. Areas Commun. IEEE J. Sel. Topics Signal Process. IEEE J. Sel. Topics. Quantum Electron.	IEEE J. Solid-State Circuits IEEE Sensors J. IEEE Syst. J. IEEE Transl. J. Magn. Jpn. J. Lightw. Technol. J. Microelectromech. Syst.
IEEE Letters	IEEE Antennas Wireless Propag. Lett. IEEE Commun. Lett. IEEE Electron Device Lett.	IEEE Photonics Technol. Lett. IEEE Power Electron. Lett. (<i>until 2005</i>) IEEE Signal Process. Lett.
IEEE Magazines	IEEE Aersp. Electron. Syst. Mag. IEEE Annals Hist. Comput. IEEE Antennas Propagat. Mag. IEEE ASSP Mag. (<i>1984-1990</i>) IEEE Circuits Devices Mag. (<i>1985-present</i>) IEEE Circuits Syst. Mag. (<i>1979-1984</i>) IEEE Commun. Mag. (<i>1979-present</i>) IEEE Commun. Soc. Mag. (<i>until 1978</i>) IEEE Comput. Appl. Power IEEE Comput. Graph. Appl. IEEE Comput. Intell. Mag. IEEE Comput. Sci. Eng. Mag. IEEE Computer IEEE Concurrency IEEE Control. Syst. Mag. IEEE Des. Test Comput. IEEE Electr. Insul. Mag. IEEE Eng. Manag. Rev. IEEE Eng. Med. Biol. Mag. IEEE Expert (<i>until 1997</i>)	IEEE Ind. Appl. Mag. IEEE Instrum. Meas. Mag. IEEE Intell. Syst. IEEE Internet Comput. IEEE IT Prof. IEEE Micro IEEE Microwave IEEE Multimedia IEEE Nanotechnol. Mag. IEEE Network IEEE Pers. Commun. IEEE Potentials IEEE Power Eng. Rev. IEEE Robot. Automat. Mag. IEEE Signal Processing Mag. (<i>1991-present</i>) IEEE Softw. IEEE Spectr. IEEE Technol. Soc. Mag. IEEE Veh. Technol. Mag. Today's Eng.

IEEE Transactions abbreviations

IEEE Adv. Packag.
IEEE/ACM Trans. Netw.
IEEE Human–Factors Electron. (*until 1968*)
IEEE Man–Mach. Syst. (*until 1970*)
IEEE Trans. Acoust., Speech, Signal Process. (*1975–1990*)
IEEE Trans. Aeronaut. Navig. Electron.
IEEE Trans. Aerosp.
IEEE Trans. Aerosp. Electron. Syst.
IEEE Trans. Aerosp. Navig. Electron.
IEEE Trans. Airbone Electron.
IEEE Trans. Antennas Propag.
IEEE Trans. Appl. Supercond.
IEEE Trans. Audio Electroacoust. (*until 1974*)
IEEE Trans. Autom. Control
IEEE Trans. Biomed. Circuits Syst.
IEEE Trans. Biomed. Eng.
IEEE Trans. Broadcast.
IEEE Trans. Broadcast. Technol.
IEEE Trans. Circuit Theory (*until 1973*)
IEEE Trans. Circuits Syst. (*1974–1992*)
IEEE Trans. Circuits Syst. I, Fundam. Theory Appl. (*until 2003*)
IEEE Trans. Circuits Syst. I, Reg. Papers
IEEE Trans. Circuits Syst. II, Analog Digit. Signal Process. (*until 2003*)

IEEE Trans. Circuits Syst. II, Exp. Briefs
IEEE Trans. Circuits Syst. Video Technol.
IEEE Trans. Commun.
IEEE Trans. Commun. Technol. (*until 1971*)
IEEE Trans. Compon. Hybrids, Manuf. Technol. (*1978–1993*)
IEEE Trans. Compon. Packag. Manuf. Technol. A (*1994–1998*)
IEEE Trans. Compon. Packag. Manuf. Technol. B (*1994–1998*)
IEEE Trans. Compon. Packag. Manuf. Technol. C (*1996–1998*)
IEEE Trans. Compon. Packag. Technol.
IEEE Trans. Comput.
IEEE Trans. Comput.-Aided Des. Integr. Circuits Syst.
IEEE Trans. Consum. Electron.
IEEE Trans. Control Syst. Technol.
IEEE Trans. Dev. Mat. Rel.
IEEE Trans. Dielectr. Electr. Insul.
IEEE Trans. Edu.
IEEE Trans. Electromagn. Compat.
IEEE Trans. Electron Devices
IEEE Trans. Electron. Packag. Manuf.
IEEE Trans. Energy Convers.
IEEE Trans. Eng. Manag.
IEEE Trans. Evol. Comput.
IEEE Trans. Fuzzy Syst.
IEEE Trans. Geosci. Electron. (*1962–1979*)
IEEE Trans. Geosci. Remote Sens.
IEEE Trans. Image Process.
IEEE Trans. Ind. Appl.

IEEE Trans. Ind. Electron.
IEEE Trans. Ind. Informat.
IEEE Trans. Inf. Forens. Security
IEEE Trans. Inf. Technol. Biomed.
IEEE Trans. Inf. Theory
IEEE Trans. Instrum.
IEEE Trans. Instrum. Meas.
IEEE Trans. Intell. Transp. Syst.
IEEE Trans. Knowl. Data Eng.
IEEE Trans. Magn.
IEEE Trans. Manuf. Technol. (*1972–1977*)
IEEE Trans. Mechatron.
IEEE Trans. Med. Imag.
IEEE Trans. Microw. Guid. Wave Lett. (*1987–1999*)
IEEE Trans. Microw. Theory Tech.
IEEE Trans. Microw. Wireless Compon. Lett. (*until 2004*)
IEEE Trans. Mil. Electron.
IEEE Trans. Multimedia
IEEE Trans. Nanotechnol.
IEEE Trans. Neural Netw.
IEEE Trans. Neural Syst. Rehabil. Eng.
IEEE Trans. Nucl. Sci.

IEEE Trans. Parallel Distrib. Syst.

IEEE Trans. Parts, Hybrids, Packag. Technol. (*June 1971–1977*)
IEEE Trans. Parts, Mater. Packag.
IEEE Trans. Pattern Anal. Mach. Intell.
IEEE Trans. Plasma Sci.
IEEE Trans. Power App. Syst. (*until 1985*)
IEEE Trans. Power Del.
IEEE Trans. Power Electron.
IEEE Trans. Power Syst.
IEEE Trans. Prof. Commun.
IEEE Trans. Rehabil. Eng. (*until 2000*)
IEEE Trans. Reliab.
IEEE Trans. Robot. Autom.
IEEE Trans. Semicond. Manuf.
IEEE Trans. Signal Process.
IEEE Trans. Softw. Eng.
IEEE Trans. Sonics Ultrason. (*until 1985*)
IEEE Trans. Speech Audio Process.
IEEE Trans. Syst. Man Cybern. (*1971–1995*)
IEEE Trans. Syst. Man Cybern. A., Syst. Humans
IEEE Trans. Syst. Man Cybern. B, Cybern.
IEEE Trans. Syst. Man Cybern. C, Appl. Rev.
IEEE Trans. Ultrason. Eng.
IEEE Trans. Ultrason. Ferroelectr. Freq. Control
IEEE Trans. Veh. Technol.
IEEE Trans. Very Large Scale Integr. (VLSI) Syst.
IEEE Trans. Vis. Comput. Graphics
IEEE Trans. Wireless Commun.

References

NOTE: Use *et al.* when three or more names are given.

References in Text:

References need not be cited in the text. When they are, they appear on the line, in square brackets, *inside the punctuation*. Grammatically, they may be treated as if they were footnote numbers, e.g.,

as shown by Brown [4], [5]; as mentioned earlier [2], [4]–[7], [9]; Smith [4] and Brown and Jones [5]; Wood et al. [7]

or as nouns:

as demonstrated in [3]; according to [4] and [6]–[9].

References Within a Reference:

Check the reference list for *ibid.* or *op. cit.* These refer to a previous reference and should be eliminated from the reference section. In text, repeat the earlier reference number and renumber the reference section accordingly. If the *ibid.* gives a new page number, or other information, use the following forms:

[3, Th. 1]; [3, Lemma 2]; [3, pp. 5-10]; [3, eq. (2)]; [3, Fig. 1]; [3, Appendix I]; [3, Sec. 4.5]; [3, Ch. 2, pp. 5-10]; [3, Algorithm 5].

NOTE: Editing of references may entail careful renumbering of references, as well as the citations in text.

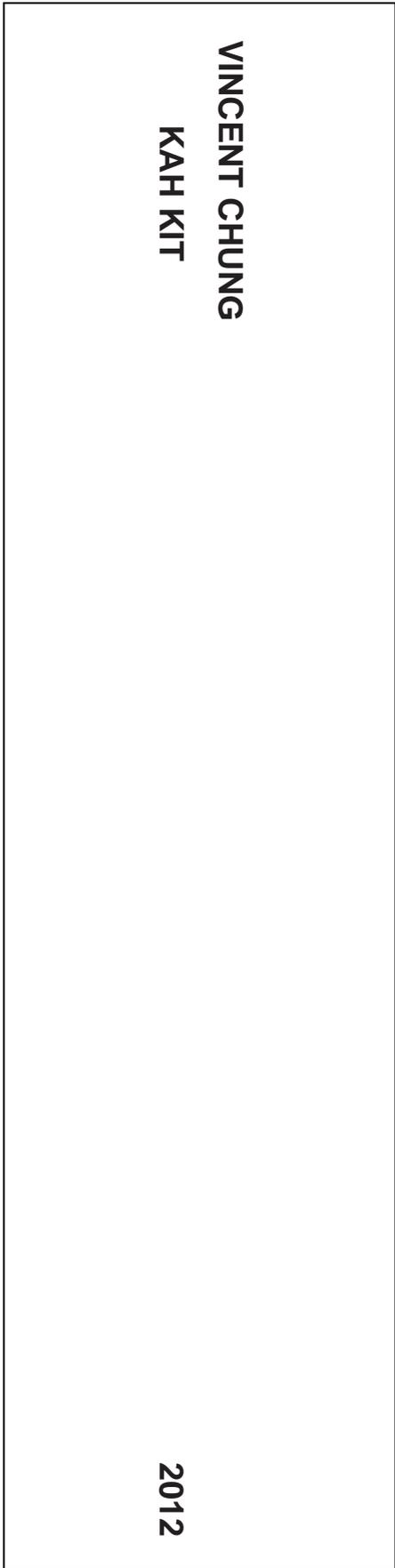
Style

Reference numbers are set flush left and form a column of their own, hanging out beyond the body of the reference. The reference numbers are on the line, enclosed in square brackets. In all references, the given name of the author or editor is abbreviated to the initial only and precedes the last name. Use commas around Jr., Sr., and III in names. If there are many names, use *et al.* Note that when citing IEEE Transactions, if the month is not available, the number may be kept, although it is normally deleted. Keep the day of the month when referencing a patent. References may not include all information; please obtain and include relevant information. Do not combine references. There must be only one reference with each number. If there is a URL included with the print reference, it can be included at the end of the reference.

When the word below appears in the reference, abbreviate to

Acoustics	Acoust.	Electrical	Elect.	Nuclear	Nucl.
Administration	Admin.	Electronic	Electron.	Occupation	Occupat.
Administrative	Administ.	Engineering	Eng.	Philosophical	Philosph.
American	Amer.	Ergonomics	Ergonom.	Proceedings	Proc.
Analysis	Anal.	Evolutionary	Evol.	Processing	Process.
Annals	Ann.	Foundation	Found.	Production	Prod.
Annual	Annu.	Geoscience	Geosci.	Productivity	Productiv.
Apparatus	App.	Graphics	Graph.	Quarterly	Quart.
Applications	Applicat.	Industrial	Ind.	Record	Rec.
Applied	Appl.	Industry	Ind.	Reliability	Rel.
Association	Assoc.	Information	Inform.	Report	Rep.
Automatic	Automat.	Institute	Inst.	Royal	Roy.
Broadcasting	Broadcast.	Intelligence	Intell.	Science	Sci.
Business	Bus.	International	Int.	Selected	Select.
Communications	Commun.	Journal	J.	Society	Soc.
Computer(s)	Comput.	Letter(s)	Lett.	Sociological	Sociol.
Congress	Congr.	Machine	Mach.	Statistics	Stat.
Convention	Conv.	Magazine	Mag.	Studies	Stud.
Correspondence	Corresp.	Management	Manage.	Supplement	Suppl.
Cybernetics	Cybern.	Managing	Manag.	Symposium	Symp.
Department	Dept.	Mathematic(s)	Math.	Systems	Syst.
Development	Develop.	Mathematical	Math.	Technical	Tech.
Digest	Dig.	Mechanical	Mech.	Telecommunication	Telecommun.
Economic(s)	Econ.	National	Nat.	Transactions	Trans.
Education	Educ.	Newsletter	Newslett.	Vehicular	Veh.
				Working	Work.

EXAMPLE: SPINE LABELLING



CD COVER



**SCHOOL OF ELECTRICAL & ELECTRONIC
ENGINEERING**

Academic Session:

Supervisor :

Month, Year

Name of Supervisor

Course Code

PROJECT TITLE

By :

Student's Full Name

Student's Number