

# National Information Centre of Earthquake Engineering



## MISSION

National Information Centre of Earthquake Engineering (NICEE) was established in IIT Kanpur with the mandate to empower all stakeholders in the building industry in seismic safety towards ensuring an earthquake resistant built environment. NICEE maintains and disseminates information resources on Earthquake Engineering. It undertakes community outreach activities aimed at mitigation of earthquake disasters. NICEE's target audience includes professionals, academics and all others with an interest in and concern for seismic safety.

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## The Indian Earthquake Problem

India has a very real earthquake problem. The past two decades have seen devastating earthquakes striking India with frightening regularity. India's seismic zone map emphasizes that over 60% of land area in India is under moderate to severe earthquake hazard (IS: 1893, 2002).

Unsafe building stock makes the built environment vulnerable and this in turn results in loss of human life and property in the aftermath of earthquakes.

Hence, the built environment must be made earthquake resistant so that lives are not lost through the collapse of unsafe buildings. This requires the active participation of various professionals associated with the construction industry and the all stakeholders in building development and delivery.

## SPONSORS

NICEE receives no budget from any sources and operates entirely on the interest income of its endowment, sponsorships, publication sales, and donations. One-time grants from the following organizations made it possible to launch the operations of NICEE:

*Housing and Urban Development Corporation, New Delhi*

*Department of Telecom, New Delhi*

*Railway Board, New Delhi*

*Ministry of Agriculture, Government of India, New Delhi*

*Department of Atomic Energy, Mumbai*

Donations to NICEE are welcome; please visit:

[http://www.nicee.org/NICEE\\_donation.php](http://www.nicee.org/NICEE_donation.php)

**All donations to NICEE from within India and USA are 100% tax deductible.**

For more information, please contact

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To receive a free monthly electronic newsletter, please register at [www.nicee.org](http://www.nicee.org)

1 Information sourcing and maintenance

2 Information dissemination

3 Outreach

## Activities of NICEE

**Procurement of Publications and Supply of Literature** - NICEE strives to maximize its acquisition of publications. These are maintained in the Central Library of IIT Kanpur. Requests for literature are entertained and visitors wishing to use NICEE resources are facilitated.

**Literature Survey Workshops** - An annual workshop is held for post graduate students from all over India working in the area of earthquake engineering. Cash Award and Certificates are awarded to deserving theses.

**Distribution of Special Publications** - A number of monographs are printed and circulated widely.

**Quarterly Periodical** - A quarterly periodical - *Earthquake Engineering Practice* - containing important articles relating to earthquake engineering is widely disseminated to subscribers.

**Translation into Local Languages** - NICEE's most popular publications are being translated into regional Indian languages. Hindi and Oriya versions of *IAEE Guidelines for Earthquake Resistant Non-Engineered Construction* and Hindi and Marathi versions of *IITK-BMTPC Earthquake Tips* are now available.

**E-Conferences** - Two highly successful e-conferences on *Indian Seismic Codes* and *Professional Issues in Structural Engineering in India* were held in 2002 to facilitate exchanges within the structural engineering community. This led to creation of Structural Engineers Forum of India ([www.sefindia.org](http://www.sefindia.org)).

**Electronic Newsletter** - NICEE has about 8,800 members on its email listing (as of September 2008). An electronic newsletter is sent to all members free of charge every month.

**Agenda for Architects** - NICEE is making concerted efforts to bring earthquake safety agenda to the architects.

**Web Site** - A resourceful and active website that includes:

- Manuals and monographs
- Commentaries on seismic codes
- Photo gallery of past Indian earthquakes

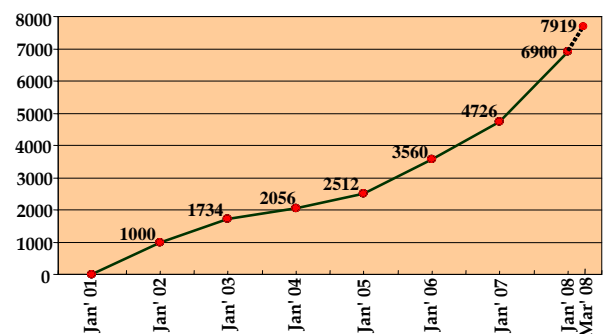
## Some NICEE Publications

(Visit [www.nicee.org/Publications.php](http://www.nicee.org/Publications.php) for complete list)



## Steady Increase in NICEE Community

All members on the email list of NICEE are sent an electronic newsletter every month. The number of subscribers stands at about 9,100 as of October 2008.



SNo	Items	Price (Rs)	Qty	Amount
1	<b>IITK-BMTPC Earthquake Tips:</b> Targeted at stakeholders in the building and construction industry, this very popular series introduces the basics of earthquake resistant design concepts in a simple and easy to understand format. <b>Author:</b> C.V.R. Murty. <i>56 pages in colour.</i> ISBN: 81-904190-2-1	150		
2	<b>Seismic Conceptual Design of Buildings – Basic principles for engineers, architects, building owners, and authorities:</b> This monograph conveys the concept of earthquake resistant design of buildings in a very simple and pictorial style. <b>Authors:</b> Hugo Bachmann. <i>84 pages in colour.</i> ISBN: 81-904190-0-5	200		
3	<b>AT RISK: The Seismic Performance of Reinforced Concrete Frame Buildings with Masonry Infill Walls:</b> A tutorial developed by a committee of the World Housing Encyclopedia, a project of the Earthquake Engineering Research Institute and the International Association for Earthquake Engineering. <b>Authors:</b> C. V. R. Murty, Svetlana Brzev, Heidi Faison, Craig D. Comartin and Ayhan Irfanoglu. <i>80 pages in colour.</i> ISBN: 1-932884-22-X <sup>1</sup>	200		
4	<b>Earthquake-Resistant Confined Masonry Construction:</b> Presents confined masonry construction as an alternative form of masonry construction in seismic areas. It contains a review of the international state-of-the-practice as well as guidelines for construction of new structures. <b>Authors:</b> Svetlana Brzev. <i>81 pages.</i> ISBN: 978-81-906130-0-2	100		
5	<b>Guidelines for Earthquake Resistant Non-Engineered Construction:</b> This monograph of the International Association for Earthquake Engineering covers masonry, earthen, wooden and reinforced concrete buildings. The simple, presentation style enables the common man to apply these techniques in non-engineered constructions. <i>Available in English and Hindi versions. 114 Pages.</i> <sup>2</sup>	100 (English) 100 (Hindi)		
6	<b>Earthquake Design Criteria:</b> This EERI monograph presents information on the earthquake performance of structures and on important aspects of specifying seismic design criteria. <b>Authors:</b> G. W. Housner and P. C. Jennings. <i>128 pages.</i> ISBN: 1-943198-23-2 <sup>1</sup>	200		
7	<b>Earthquake Dynamics of Structures, A Primer:</b> This EERI monograph provides a primer on the fundamentals of structural dynamics, with the intention of providing the non-specialist in dynamics with the basic concepts and knowledge needed to understand the response of structures to earthquake motions. <b>Authors:</b> Anil K. Chopra. <i>131 pages.</i> ISBN: 1-932884-07-6 <sup>1</sup>	200		
8	<b>Fundamentals of Seismic Protection for Bridges:</b> This EERI monograph discusses the seismic performance of bridges, and current practices in the seismic analysis and design of new bridges as well as retrofit strategies for old bridges. It brings state-of-the-art practices in earthquake resistant design and construction of bridges to the research, teaching and design community of India. <b>Authors:</b> Mark Yashinsky and M.J. Karshenas. <i>184 pages.</i> ISBN: 0-943198-04-6 <sup>3</sup>	200		
9	<b>Seismic Hazard and Risk Analysis:</b> This EERI monograph introduces methods of seismic hazard and risk analysis that form the basis for development of consensus probabilistic seismic hazard maps, an important prerequisite for responding effectively to earthquake risk. <b>Author:</b> Robin K. McGuire. <i>221 pages.</i> ISBN: 0-943198-01-1 <sup>3</sup>	200		
10	<b>Design of Foundations in Seismic Areas: Principles and Applications:</b> This publication addresses the major principles of foundation design in seismic areas. Some practical examples have been worked out. The topics covered are seismic hazards and their assessment, liquefaction and its remediation, site response analysis, piled foundation and pile failure. This publication covers papers written by leading academicians and industry practitioners in India, Japan and UK. The book is intended for professionals and researchers. It can also serve as a text book for post graduate students in this field. <b>Editor:</b> Subhamoy Bhattacharya. <i>480 pages.</i> ISBN: 81-904190-1-3	375		
11	<b>Architectural Teaching Resource Material on Earthquake Design Concepts for Teachers of Architecture Colleges:</b> This package (a CD & 640 printed pages) contains about 627 power point slides covered in 27 lectures, movie files and explanatory notes for each slide. It is prepared by Prof. C. V. R. Murty, IITK and Prof. Andrew W. Charleson, Victoria University of Wellington, New Zealand. Package is expected to serve as a basic material which faculty members of the colleges of architecture may use to build their lectures from.	500 (Hard Copy) 500 (CD)		
12	<b>Resource Material for Development of Experimental Setup for Earthquake Engineering Education:</b> Professor C S Manohar and Mr S Venkatesha of IISc Bangalore have developed a package of resource materials for development of experimental setups for earthquake engineering education. It consists of Student's Manual, Notes for the Instructors, and Inventory of items and cost estimation for development of such set-ups in house.	500		
13	<b>Engineering Response to Hazards of Terrorism:</b> This volume contains the articles or power point presentations made during the seminar. The seminar themes included hazard estimations, structural	450		

	and non-structural mitigation measures and hazard detection. <b>Editors:</b> Sudhir K. Jain, C.V.R. Murty and D.C. Rai. 398 pages. ISBN: 978-81-906130-1-9			
14	<b>Keeping Schools Safe in Earthquakes:</b> This monograph presents a series of papers authored by participants of the 2004 OECD-GHI Meeting at Paris. The articles encompass issues pertaining to new buildings, retrofitting of old buildings as well as enforcement and public policy towards maximizing seismic safety of schools. 242 pages. ISBN: 81-88689-43-2 <sup>4</sup>	200		
15	<b>Earthquake Rebuilding in Gujarat, India:</b> This publication describes the post-earthquake recovery process after the Bhuj 2001 earthquake. It showcases the complex and challenging recovery phase and the strategies employed by the communities towards disaster mitigation that can serve as useful lessons and guidelines for handling future disasters. <b>Authors:</b> C.V.R. Murty, Marjorie Greene, Sudhir K. Jain, N. Purendra Prasad, Vipul V. Mehta. 120 pages in colour. ISBN: 1-932884-05-X <sup>3</sup>	150		
16	<b>The Great Sumatra Earthquake and Andaman Ocean Tsunami of December 26, 2004:</b> A report based on a reconnaissance study coordinated by IIT Kanpur, this publication gives an overview of the effects in Indian territory of the 2004 Sumatra tsunami and the earthquake. Originally published in EERI newsletter. <b>Authors:</b> Sudhir K. Jain, et.al. 16 pages in colour. <sup>3</sup>	100		
17	<b>Reconnaissance Report of Sikkim Earthquake of 14 February 2006:</b> This reconnaissance study report by IIT Kanpur summarises the damages caused by the moderate 5.7 magnitude earthquake. <b>Authors:</b> Hemant B. Kaushik, Kaustubh Dasgupta, Dipti R. Sahu and Gayatri Kharel. 20 pages in colour.	100		
18	<b>Annotated Images from the Bhuj, India Earthquake of January 26, 2001 (CD):</b> This CD compiled by EERI contains annotated images from the Bhuj, India Earthquake of January 26, 2001. Over 300 images illustrate widespread damages of different categories. <sup>3</sup>	200		
19	<b>Bhuj, India Republic Day January 26, 2001 Earthquake Reconnaissance Report (CD):</b> This CD contains full text and images of the 398-page, Reconnaissance Report, published by EERI. <b>Technical editors:</b> Sudhir K. Jain, William R. Lettis, C.V.R. Murty and Jean-Pierre Bardet. <sup>3</sup>	200		
20	<b>Concept of Earthquake Resistant Design:</b> This CD-ROM contains the video documentations of a lecture by <b>Professor Sudhir K. Jain</b> delivered at IIT Kanpur in February 2003. The lecture covers objectives of earthquake resistant design, implications of design objectives, level of design forces, nature of aseismic design problem, earthquake forces, response spectrum and capacity design concept used in earthquake resistant design. 37 minutes. <sup>5</sup>	500		
21	<b>Seismic Retrofit Techniques for Masonry Buildings - An Overview:</b> This CD-ROM contains the video documentation of a lecture by <b>Dr. Svetlana N. Brzev</b> delivered at IIT Kanpur in December 2005. The lecture covers seismic performance of masonry buildings, masonry walls, their behaviour and failure mode and seismic retrofit methods. All the concepts are supported with explanatory sketches and photographs. 62 minutes. <sup>5</sup>	500		
22	<b>Buildings on Rollers -Use of Passive Control Devices for Seismic Protection of Structures:</b> This CD-ROM contains the video documentations of two lectures by <b>Dr. Svetlana N. Brzev</b> delivered at IIT Kanpur in December 2005. The lectures cover concepts of passive seismic control systems, working and performance of building isolation, design of building isolation in structures, seismic dampers and damper design. Retrofit case-studies with number of photographs discussed at the end, is an added advantage of this lecture. 105 minutes. <sup>5</sup>	500		
23	<b>Seismic Design &amp; Retrofit of Nonstructural Building Components:</b> This CD-ROM contains the video documentation of a lecture by <b>Dr. Svetlana N. Brzev</b> delivered at IIT Kanpur in December 2005. The lecture covers seismic performance and failure modes, performance objectives, design codes and recommendations and seismic retrofit solutions. The main attraction of the lecture is introduction to simple calculations for seismic design of nonstructural building components. 63 minutes. <sup>5</sup>	500		
24	<b>Building Performance in Boumerdes (Algeria) Earthquake of 21 May 2003:</b> This CD-ROM contains the video documentation of a lecture by <b>Dr. Svetlana N. Brzev</b> delivered at IIT Kanpur in December 2005. The lecture provides an overview of the 2003 earthquake, background on the Algerian construction practices and building codes, and the observations related to the causes and patterns of building damage due to the 2003 Boumerdes earthquake. 55 minutes. <sup>5</sup>	500		
25	<b>The History of Earthquake Engineering from an International Perspective:</b> This CD-ROM contains the video documentation of a lecture by <b>Ar. Robert Reitherman</b> delivered at IIT Kanpur in November, 2005. The lecture covers importance of Earthquake Engineering history, its gradual evolution in different parts of the world, major earthquakes and their contribution towards development of the subject and a discussion based on case studies. 66 minutes. <sup>5</sup>	500		
26	<b>Structure &amp; Architecture, Architecture &amp; Earthquakes:</b> This CD-ROM contains the video documentation of two lectures by <b>Professor Andrew W. Charleson</b> delivered at IIT Kanpur in November, 2005. The lectures cover relationship between architectural and structural form, building interior, building function, structural detailing, structure and light, representation and symbolism. It is rendered with beautiful, architecturally appealing and eye catching photographs to elaborate the concepts. 104 minute. <sup>5</sup>	500		

27	<b>Seismic Hazard and Its Quantification:</b> This CD-ROM contains the video documentation of a series of three lectures (each of approximately 60 minutes) by Late <b>Professor Bruce A. Bolt</b> , delivered at IIT Kanpur in February 2004. These lectures cover world seismicity, global seismic hazard and seismic hazard quantification. The highlights of these lectures include some advanced techniques of seismic hazard quantification and the success story of scientific seismic hazard estimation leading to excellent performance of the trans-Alaska pipeline. <sup>5</sup>	500		
28	<b>Earthquake Resistant Design of Steel Buildings in the US:</b> This CD-ROM contains the video documentation of a lecture by Dr. Janise E. Rodgers delivered at IIT Kanpur in May, 2006. The lecture covers basic knowledge of steel structures, seismic design of conventional steel structural systems such as moment frames, concentrically braced frames and eccentrically braced frames, and seismic design of new and innovative steel structural systems. 33 <i>minute</i> . <sup>5</sup>	500		
29	<b>E-course : Indian Seismic Code IS:1893-2002 (Part-I):</b> This CD contains entire <b>e-course</b> on Indian Seismic Code IS: 1893-2002 (Part-I), conducted by <b>Prof. Sudhir K. Jain</b> of IIT Kanpur during January-February, 2003. It consists of about 360 power point slides covered in 9 lectures. The latest version of the Indian seismic code IS: 1893-2002 (Part I) has been significantly revised from the earlier 1984 version. The code now incorporates many new design concepts in earthquake engineering. In this e-course all the lectures provided are in the form of MS Power-point slides and a few example problems are in MS Word documents.	1200		
30	<b>E-course : Seismic Design of Liquid Storage Tanks:</b> This CD contains entire <b>e-course</b> on Seismic Design of Liquid Storage Tanks, conducted by <b>Prof. Sudhir K. Jain</b> and <b>Prof. Durgesh C. Rai</b> of IIT Kanpur and <b>Prof. O. R. Jaiswal</b> , VNIT Nagpur during January-February, 2006. It consists of about 525 power point slides covered in 8 lectures. The lectures provide an overall understanding of the seismic design concepts, procedures and current practices for seismic design of liquid storage tanks. In this e-course all the lectures provided are in the form of MS Power-point slides and a few example problems are in MS Word documents.	1200		
31	<b>IITK-GSDMA Guidelines for Seismic Design of Liquid Storage Tanks:</b> Includes commentary and solved examples : Paper Copy	200		
32	<b>IITK-GSDMA Guidelines for Structural Use of Reinforced Masonry:</b> Includes commentary and solved examples: Paper Copy	200		
33	<b>IITK-GSDMA Guidelines for Seismic Evaluation and Strengthening of Existing Buildings:</b> Includes commentary and solved examples: Paper Copy	200		
34	<b>IITK-GSDMA Guidelines for Seismic Design of Earth Dams and Embankments:</b> Includes commentary and solved examples: Paper Copy	200		
35	<b>IITK-GSDMA Guidelines on Measures to Mitigate Effects of Terrorist Attacks on Buildings:</b> Paper Copy	200		
36	<b>IITK-GSDMA Guidelines for Seismic Design of Buried Pipelines:</b> Includes commentary and solved examples: Paper Copy	200		
37	<b>Back Issues of Earthquake Engineering Practice:</b> (Per issue)	250		

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<sup>4</sup> Reproduced with permission from OECD for distribution in India, Pakistan, Bangladesh, Sri Lanka, Bhutan, Maldives, Myanmar and Nepal only.

<sup>5</sup> The CD contains the video recording of the lecture clubbed with Power Point Presentation slides, and the RealPlayer® installer. All slides and video files are supplied in an additional folder for the ease of viewing separately.

- Orders from overseas must add Rs. 250/- per item (Rs. 600/- for items 10, 11 and 13) for airmail postage and handling.
- Exchange rate in November 2008: US\$ 1.0 ~ Rs. 50/-.
- Prices subject to revision without intimation.

## Earthquake Engineering Practice – A quarterly Periodical

**Earthquake Engineering Practice:** The primary purpose of establishing the periodical is to disseminate information about current research and state-of-the-art in earthquake engineering to engineers in developing countries. The periodical consists of already published articles of wide interest to the professionals, academicians and researchers. Individuals and organizations may subscribe to Earthquake Engineering Practice at [www.nicee.org/EEP.php](http://www.nicee.org/EEP.php) ISSN: 0973-7995

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**Rs. 3000 per year (4 Issues)**  
(For Organisations and Libraries outside India)



# Highlights



## Stepping Up Outreach to the Architecture Community

Making built environment safe against earthquakes requires active participation of all professionals connected with the construction industry. In view of the very significant role architects play in this, NICEE has placed considerable emphasis on reaching out to the architects. A number of publications focused on architects are available from NICEE. This includes 651 power point slides as resource material for teaching the subject to architectural students. NICEE's popular publications IITK-BMTPC Earthquake Tips was sent out to ~ 10,000 architects, so was a specially designed brochure. NICEE also participates in major events of architectural students such as Annual Convention of the National Architecture Students Association. NICEE has now started an annual workshop for architectural students to sensitize them on earthquake safety. For details please visit [www.nicee.org/Architecture\\_Report/Arch\\_Workshop\\_Report.htm](http://www.nicee.org/Architecture_Report/Arch_Workshop_Report.htm).

## Continuing Literature Survey Workshop for Post Graduate Students

A Literature Survey Workshop for Post Graduate Students of Civil Engineering from across India is conducted every year since 2002. Till date, about 400 students from 65 engineering colleges/universities in the country have benefited from these workshops. The workshop is meant to assist students to carry out extensive literature survey to help improve the quality of their thesis. It includes visits to libraries and faculty offices, discussions with IITK faculty and research scholars, video shows on earthquake engineering, Structural Engineering Test, and an Earthquake Engineering Quiz. The participants are encouraged to submit their thesis on completion. These are then evaluated for the Best Thesis Award and Certificates of Merit. The students are provided travel, boarding and lodging. The event is supported by sponsorships and donations. For details please visit [www.nicee.org/MTech\\_Workshop/index.htm](http://www.nicee.org/MTech_Workshop/index.htm).

## Increasing Reach of Earthquake Engineering Practice

NICEE publishes a quarterly periodical - Earthquake Engineering Practice - with the primary purpose of disseminating information about current research and state-of-the-art in earthquake engineering to engineers in developing countries. The periodical contains articles published in journals of repute with due permissions. Standing arrangements have been made with the following journals to reprint their articles: Earthquake Spectra, Bulletin of the New Zealand Society for Earthquake Engineering, Structural Engineering Society Journal, and Current Science. It is distributed free of cost to individuals and at a nominal price to the libraries and organizations. This periodical is not distributed in USA & Canada. As of September 2008, about 2300 subscribers from 57 countries are receiving the periodical. The periodical is supported through sponsorships and donations, with Earthquake Engineering Research Institute, USA; Computers & Structures, Inc. Berkeley, USA and Poonam & Prabhu Goel Foundation, IIT Kanpur, being the current sponsors.

## Funding and Financial Status

NICEE receives no budget from any source and operates entirely on interest income of its endowment, sponsorships, publication sales, and the donations. It strives to minimize costs on salaries and infrastructure, and to maximize activities with its limited resources. During 1999 to 2001, an endowment of Rs 50 lakhs (~US\$ 110,000) was created by HUDCO, Telecom Commission, Railway Board, and the Ministry of Agriculture. Subsequently, Board of Research in Nuclear Sciences (BRNS) gave support for acquisitions of books for three years, and several organizations have been sponsoring many NICEE activities. Beginning 2005, the general body of users of NICEE has also been making donations.

NICEE's current Endowment Corpus stands at about Rs. 1.0 crore (~ US \$ 220,000) whose interest income is available for its activities. Donations, sponsorships and sales cover the remaining budgetary needs of the Centre. NICEE is still in a growth phase with its activities growing at about 35% compounded annually. The total outlay during 2007-08 was about Rs. 40 Lakh (~ US \$ 90,000). Annually more than 100 well wishers (128 during 2007-08) make donations to NICEE, with a median donation of Rs. 2,000 (~ US \$ 45). Till date, more than 300 individuals and organizations have contributed more than Rs. 38 Lakhs (US \$ 84,000) as donations to the Centre.

Two of the largest benefactors of NICEE currently are Computers & Structures, Inc. Berkeley, (USA) and Poonam & Prabhu Goel Foundation at IIT Kanpur.

# DONATION FORM



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Professor Sudhir K Jain  
Coordinator NICEE  
Department of Civil Engineering  
Indian Institute of Technology Kanpur  
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Phone: 0512-2597866  
email: nicee@iitk.ac.in

All donations are 100% exempt under section 80G of Indian Income Tax.

### For donors in the United States:

Cheque should be payable to "IIT Kanpur Foundation" and mailed to:

Mr. Abhay Bhushan  
CFO, IIT Kanpur Foundation  
3838 Mumford Place  
Palo Alto, CA 94306, USA  
Phone: 650-868-6645

All donations are 100% tax exempt from IRS in the United States. (Federal Tax ID: 94-3370645)

### Donate Online by Credit Card:

Donors from USA: <http://www.indolink.com/iitk/nicee/>

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