

Books:

Ceri, S. et al. *Designing data-intensive web applications*. (San Francisco, CA: Morgan Kauffman Publishers, 2003). [ISBN 9780080503936].

- Chapter 1, p.5-8, Accessing remote resources: the hypertext transfer protocol
- Chapter 1, section 1.5.7 p.54-55, Three-tier architectures
- Chapter 6, pp.193–200, Overview of the development process.

Mendez, M. *The missing link: an introduction to web development and programming*. (Geneseo, NY: Open SUNY textbooks, 2014). [ISBN 9781502447968].

- Refer to Chapter 3 to learn more about web server architecture: <https://open.umn.edu/opentextbooks/textbooks/the-missing-link-an-introduction-to-web-development-and-programming>

Krause, J. *Programming web applications with Node, Express and Pug*. (New York, NY: Apress Media LLC, 2017). [ISBN 9781484225110]

- Chapter 3 Introduction to Node, pp.15–46. You can refer to this chapter throughout Topics 2–4.
- Chapter 6, Introduction to Pug
- Example pug templates pp.83, 84, 85
- Chapter 7, Language components of Pug
- Chapters 3, 4 and 5

Yaapa, H. *Express web application development: learn how to develop web applications with the Express framework from scratch*. (Birmingham: Packt Publishing Ltd., 2013). [ISBN 9781849696555]

- Chapter 1, pp.24–26, What is Express?
- Chapter 1, pp.30–36, The stuff that makes up Express
- Chapter 2, pp.51–55, Your first Express app
- Chapters 1, 2 and 3
- pp.86–87, A quick introduction to HTTP verbs

Hoffer, J., R. Venkataraman and H. Topi *Modern database management*. (Harlow: Pearson Education Ltd., 2016). 12th Global edition. [ISBN 9781292101866].

- Chapter 1, pp.38–43, Data matter!
- Chapter 1, pp.60–63, Evolution of database systems
- Chapter 1, pp.63–67, The range of database applications
- Chapter 6, pp.279–295, Introduction to SQL
- Chapter 6, pp.287–88, Defining a database in SQL
- Chapter 6, pp.289-290, Creating tables
- Chapter 1, pp.67–77, Developing a database application for Pine Valley furniture company
- Chapter 2, pp.89–92, Introduction
- Chapter 2, pp.92–95, The E-R model: an overview
- Chapter 4, pp.192–200, Logical database design and the relational model.
- Chapter 6, p.279–324, Introduction to SQL
- Chapter 7, p.325–372, Advanced SQL

Elmasri, R. and S. Navathe *Fundamentals of database systems*. (Harlow: Pearson Education Ltd., 2017). 7th Global edition. [ISBN 9781292097619].

- Chapter 1, pp.33–39, Database and database users
- Chapter 5, section 5.3.1, pp.196–97, The insert operation
- Chapter 6, section 6.3, pp.217–21, Basic retrieval queries in SQL
- Chapter 6, Section 6.3, pp.218–28 Basic retrieval queries in SQL

- Chapter 6, Section 6.4, pp.228–31 INSERT, DELETE and UPDATE statements in SQL
- If you are interested in the subject of database security, you can refer to Chapter 30.
- If you are specifically interested to know more about 'SQL injection' as one of the threats against database security, please refer to section 30.4, pp.1172–76.
- Chapter 3, pp.89–135.
- Chapter 7, Section 7.1.7, pp.246–248, Aggregate functions in SQL
- Chapter 6, p.207-236, Basic SQL
- Chapter 7, p.237-268, More SQL
- As an example, aggregate functions are usually used with GROUP BY and HAVING clauses. You can learn more about them here: Chapter 7, section 7.18, pp.248–252

Tatipamula, M. et al. *Advanced internet protocols, services, and applications*. (Hoboken, NJ: John Wiley & Sons, 2012). [ISBN 9781118180808].

- Chapter 1, pp.1– 4, Transmission Control/Internet Protocol overview
- Section 2.1.2, pp.20–21, Three-way handshake
- Section 2.1.4, pp.24–25, Port number
- Section 2.2, pp.25–26, User Datagram Protocol (UDP)
- Section 1.2, pp.4–7, Internet Protocol basics, IP header
- Section 1.2.2, pp.7–9, Internet Protocol Address
- Section 1.3, pp.13–14, Routing page
- Chapter 1, Transmission control protocol/internet protocol overview, section 1.1 Fundamental architecture and section 1.2 Internet Protocol basics, introduction of the section and subsection 1.2.1 Packet Header, pp.1–7,
- If you are interested to know more about **internet architecture** refer to Chapter 3, p.31
- If you are interested to know more about **Transport layer protocols**, refer to Chapter 2, p.19
- If you are interested to know more about **IPv6**, refer to Chapter 11, p.151
- If you are interested to know more about **security**, refer to Chapter 13, p.181

Weblinks:

https://techterms.com/definition/web_application
<https://whatis.techtarget.com/definition/Web-server>
<https://www.website.com/beginnerguides/webhosting/6/1/what-is-web-hosting?.ws>
<https://nodejs.org/en/about/>
https://www.tutorialspoint.com/javascript/javascript_form_validations.htm
<https://www.npmjs.com/package/express-validator>
https://www.w3schools.com/sql/sql_create_db.asp
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<https://www.npmjs.com/package/express-sanitizer>
https://www.w3schools.com/sql/sql_join.asp
<https://www.db-book.com/db7/university-lab-dir/sqljs.html>